

International Meeting For Autism Research

May 2-4, 2013

Kursaal Centre ■ Donostia / San Sebastián, Spain



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IMFAR

INTERNATIONAL MEETING
FOR AUTISM RESEARCH

www.autism-insar.org

PROGRAM BOOK

IMFAR WELCOME

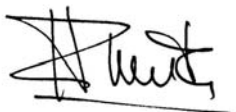
Bienvenidos! Ongi etorri! We are very excited to have IMFAR for the first time in continental Europe and in the beautiful town of Donostia / San Sebastián, in the Basque Country of Spain! We hope you will enjoy some of our attractions, including its famous gastronomic offers, the impressive beaches and the Old Quarter. All the sessions in the main auditorium will offer simultaneous translation into Basque, French and Spanish, making this IMFAR truly international.

There is a wonderful program planned for you. The Scientific Program Committee reviewed a record number of abstracts, and under the leadership of Dr. Thomas Bourgeron has planned what is sure to be an outstanding meeting. The keynote speakers will excite and inspire with new information and perspectives from research into autism and other fields of study. The Educational Symposia cover diverse topics and integrate basic and clinical sciences, and the Oral and Poster Sessions promise to be superb. Other highlights will include the Special Interest Group meetings, the 'Meet the Experts' luncheon for trainees, and the always popular Innovative Technology Demonstration Session. The Lifetime Achievement Award and Advocate Award presentations are sure to be memorable. The Basque Government invites you to our San Telmo Museum, an old Dominican convent from the mid-sixteenth century, for a reception on Thursday night that will embed you in our local culture!

This year's meeting would not have been possible without the tireless efforts of many special people. I would like to acknowledge and thank the INSAR Board for their support and guidance, as well as the Scientific Program Committees, both the Executive Scientific Committee and the main Scientific Committee, and the many abstract reviewers who have striven to ensure the excellence of the science presented at IMFAR. My special gratitude goes to Arantxa Arozena of Fundazioa / Fundación Policlínica Gipuzkoa and to Joe Dymek of ConferenceDirect, whose invaluable assistance throughout the planning process was instrumental in making this Meeting a success. I want to recognize also the availability and collaboration of the local / national organizing committee from the whole country of Spain and the key facilitating role played by the staff of the Kursaal Congress Centre!

I also thank the Donostia / San Sebastián community and authorities for their continuous and decisive support, including making possible an outstanding day-long European Stakeholder and Professionals Preconference prior to the main meeting, and a whole series of year-long preparatory activities, called DONOSTIAutism, the local framework to recognize the value of IMFAR. I am proud to mention two of these initiatives, the "Light it up Blue" of some landmarks of our town during the Meeting, and the welcome private concert offered by the Basque National Orchestra.

Once again, welcome to Donostia / San Sebastián, enjoy every minute of your time here and think about coming back. You will be always welcome. Gracias for this opportunity! Eskerrik asko!



Joaquín Fuentes
IMFAR Meeting Chair

IMFAR is the Annual Meeting of the International Society for Autism Research (INSAR)

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IMFAR 13th Annual Meeting

May 15 – 17, 2014
Marriott Marquis
Atlanta, Georgia, USA

Abstract submission for the 2014 meeting is scheduled to open in September 2013. Watch our website for details.

www.autism-insar.org

INSAR Mission Statement

To present and promote an integrated approach and understanding of research on autism spectrum disorder

Strategic Initiatives

Setting the Bar – INSAR will promote and enhance the highest quality research agenda at the Society’s Annual Meeting and in the Society journal

Expanding the Scope – INSAR will cultivate cross-cutting breadth of research from basic science to service delivery that encompasses the range of ages and diversity of ASD.

Global Reach – INSAR will expand the scope of its activities to encompass global perspectives on ASD.

Next Generation – INSAR will foster opportunities for leadership and career development for the next generation of ASD researchers.

Building Identity – INSAR will grow its membership and organizational identity.

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Data presented at the Annual International Meeting for Autism Research (IMFAR) is the sole responsibility of the authors. The sponsor of the Annual Meeting, the International Society for Autism Research (INSAR), takes no responsibility for its accuracy. Submitted IMFAR abstracts are reviewed only to ensure that the authors will be presenting empirical data and that aims and conduct of the study, as far as can be ascertained, are consistent with international ethical guidelines for scientific research (Declaration of Helsinki). Acceptance of an abstract for presentation at the Meeting does not represent an endorsement by the Society of the quality or accuracy of the data and their interpretation, which judgment must await publication in a peer review journal. Consumers should recognize that study data presented at meetings is often preliminary and in some cases speculative, and that findings and conclusions have not undergone the rigors of a true peer review process.

SCIENTIFIC PROGRAM

Welcome to the IMFAR 2013 in Donostia / San Sebastián!

Year after year, IMFAR is becoming the event for those interested in autism spectrum disorders (ASD), from patients to families, from clinicians to researchers. More than 1,000 abstracts have been received this year, covering a vast field of research including animal models, brain imaging, cell biology, clinical phenotypes, cognition, epidemiology, genetics, medical comorbid conditions, services and treatments.

The IMFAR is therefore the place to be! You will learn a lot from your own areas of interest, and please take some time to learn from other distant fields of research. The IMFAR is a unique place where a cellular biologist can discuss with a psychologist about theory of mind and a psychologist can learn about the crucial role of the mTOR pathway in synaptic mRNA translation! From this perspective, the educational sessions and the scientific panels will be exceptional places to discover new concepts on autism.

Keynote speakers will give us their innovative views on ASD. Dan Geschwind will show us how an outstanding basic research on the genetics of the human brain can inform us of the biological causes of autism. Christopher Gillberg will highlight how crucial it is to consider not only autism, but all facets of the individual's behavior as well as the comorbidities of autism, in order to provide the best support. Finally, Maureen Durkin will show us "autism in the world" and how important it is to include not only primary prevention of ASD, but also enhancement of participation and social inclusion of patients. I feel so lucky to have them here and I thank them for coming.

I thank the members from the INSAR board for choosing me as the scientific chairman of the IMFAR 2013, especially Helen Tager-Flusberg, who was my first contact in this adventure. I also thank all the chairs of the educational sessions, scientific panels, the members of the Scientific Committee, and everyone who will present their results for their commitment in making this meeting a success. Mila Esker to Joaquin "magic" Fuentes for welcoming IMFAR in Donostia / San Sebastián. Finally, a very special thank you to Jennifer Gentry who helped me so much in organizing the scientific program.

I wanted IMFAR 2013 to highlight the commonalities of individuals with autism, and also their diversities. We learned from previous IMFAR meetings that we need to see the bigger picture and that no mind should be left behind. I hope that IMFAR 2013 will also contribute to this.

Enjoy every second of this Congress and of the hospitality of the people from Donostia / San Sebastián!

Warm regards,



Thomas Bourgeron
IMFAR Scientific Program Chair

PRESIDENT'S WELCOME

This year it is a truly special privilege for me to welcome you to IMFAR 2013! One of my first tasks as president of INSAR was to finalize, with the other members of the board, the location for this year's conference. We were committed to selecting a site that was outside North America, but I quickly learned that there are many challenges, especially financial ones, to holding a meeting in Europe or other parts of the world. Our choice quickly narrowed down to Donostia / San Sebastián for one critical reason: Dr. Joaquin Fuentes could be invited to chair the meeting and we knew that it would be a winner!

Of course Donostia / San Sebastián offers so many additional exciting reasons for being here — from the location to the local culture; from the world class food to the local sites; from the people to the spirit of hospitality; and most importantly, this is a region that provides a great deal of support and services to people of all ages with ASD. For a whole year, leading up to May 1, 2013, Joaquin Fuentes has organized a series of events under the umbrella DONOSTIAutism to heighten awareness in the local community about ASD and our Conference, which culminates the celebrations that have been taking place.

The year 2013 is one in which we are making history for our organization and meeting — we are making inroads into fulfilling several of our strategic initiatives, most particularly 'Global Reach.' For example, more than half the submitted abstracts came from outside North America. We are meeting in Spain, and the major events of the conference (keynote addresses and select invited symposia) will be translated into Basque, Spanish and French and then made available on our website (www.insar-autism.org) thus helping us to bring our science to people in many areas of the world where Spanish and French are the dominant languages.

In addition to Joaquin and his committee members, I have so many others to thank for making IMFAR 2013 such a success. I only have space to mention a few key players: our Program Chair, Dr. Thomas Bourgeron and his committee worked tirelessly to create a program that covers so many topics, many of which we have heard little about in previous years — it wasn't easy to span the different time zones; Joe Dymek from Conference Direct is our 'man on the ground' who has attended to every single detail of the Meeting for the past year; and Jennifer Gentry from Association Resources held everything together and made sure we all kept to our deadlines, working closely with everyone to make this conference a spectacular event. Finally, IMFAR can only offer the highest quality international presentation of the newest research on ASD because of the enormous generosity and support from our many sponsors.

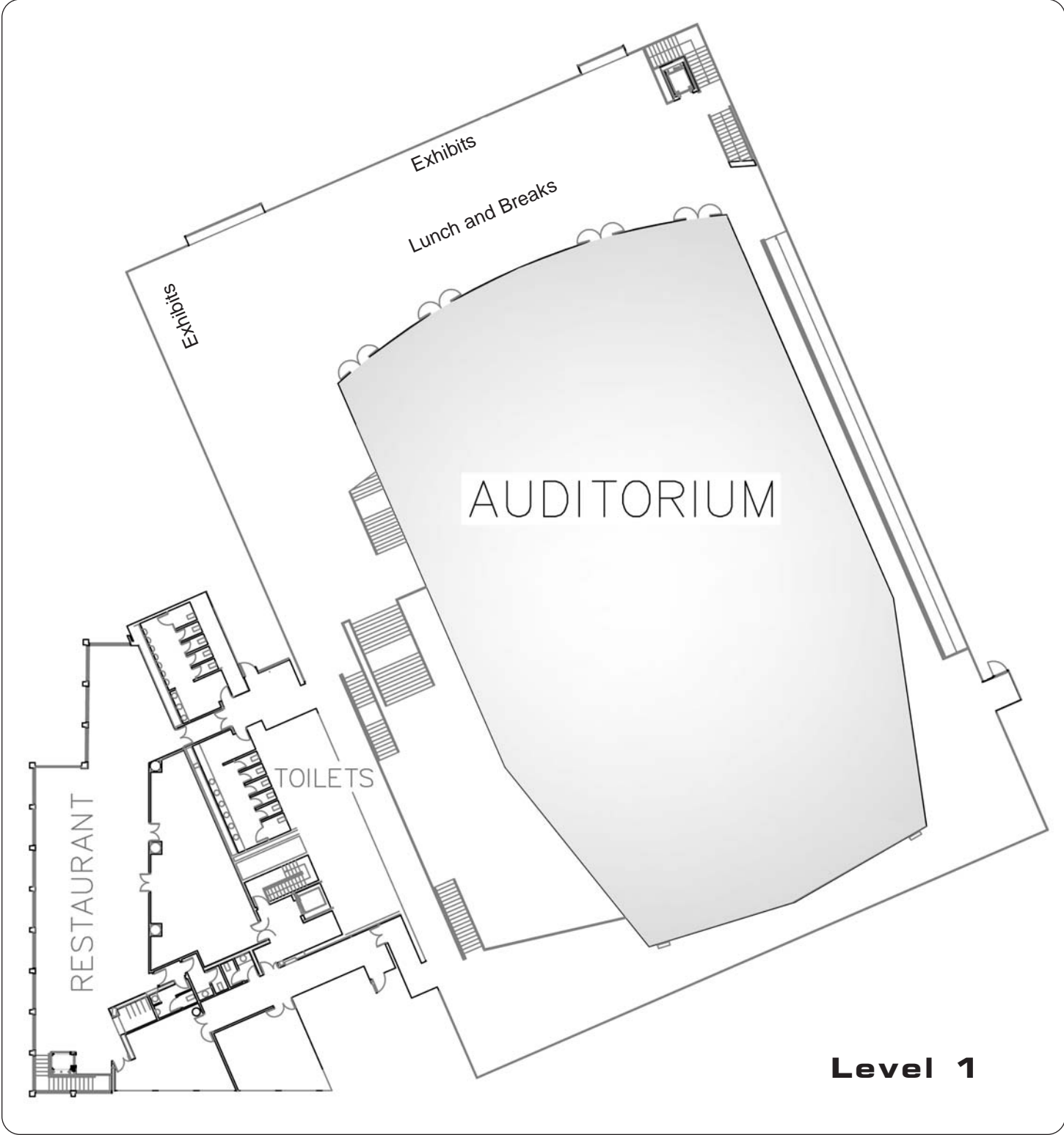
On the last day of IMFAR 2013, I will hand the gavel of the presidency of INSAR over to Dr. Francesca Happé. It has been a genuine pleasure and privilege to serve in this role these past two years — and I know that the coming years will see even greater growth in our organization and continued support for our annual conference, which is the single most important way for us to advance the science of ASD research!

Thank you all for coming to Donostia / San Sebastián and enjoy the meeting!



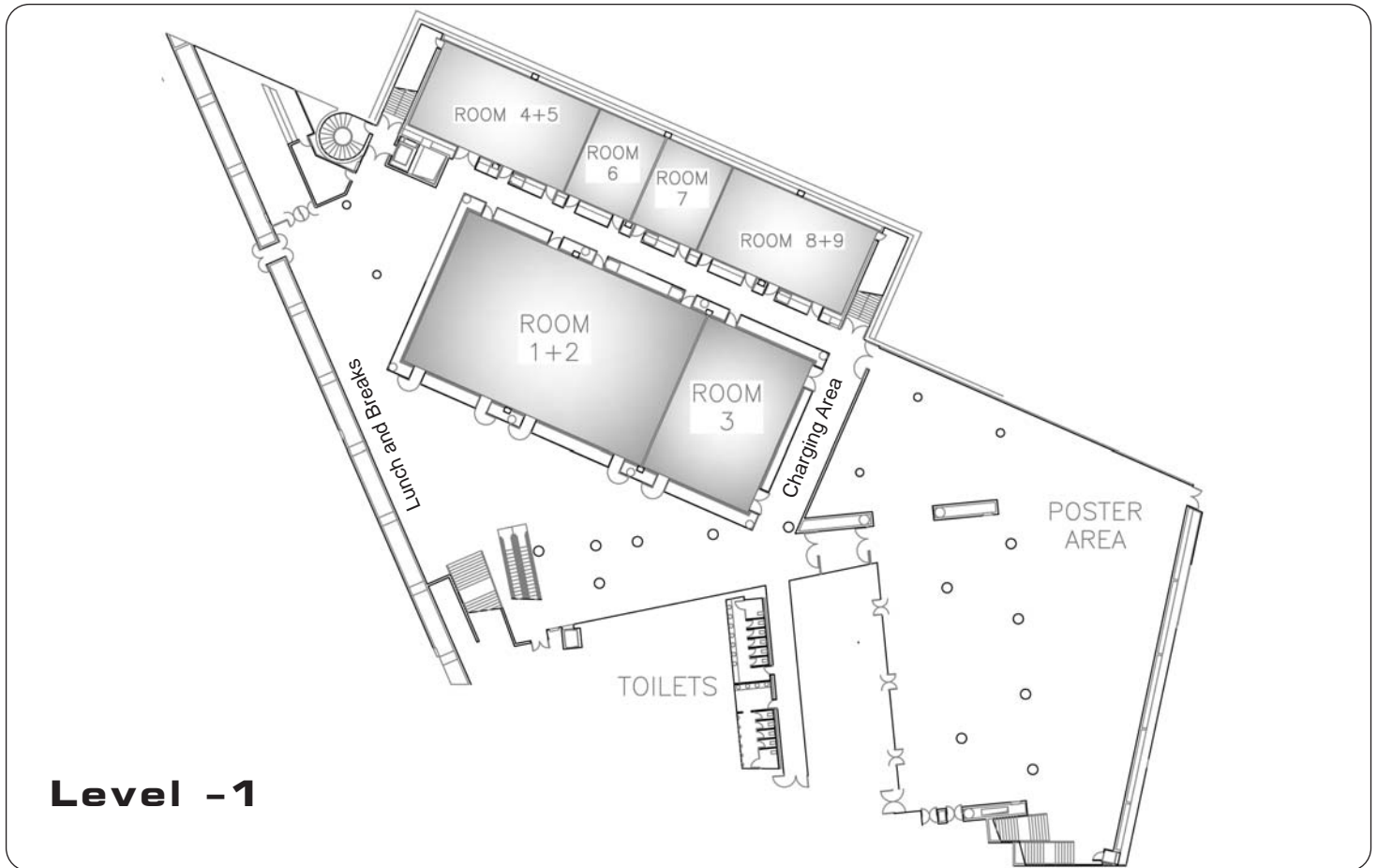
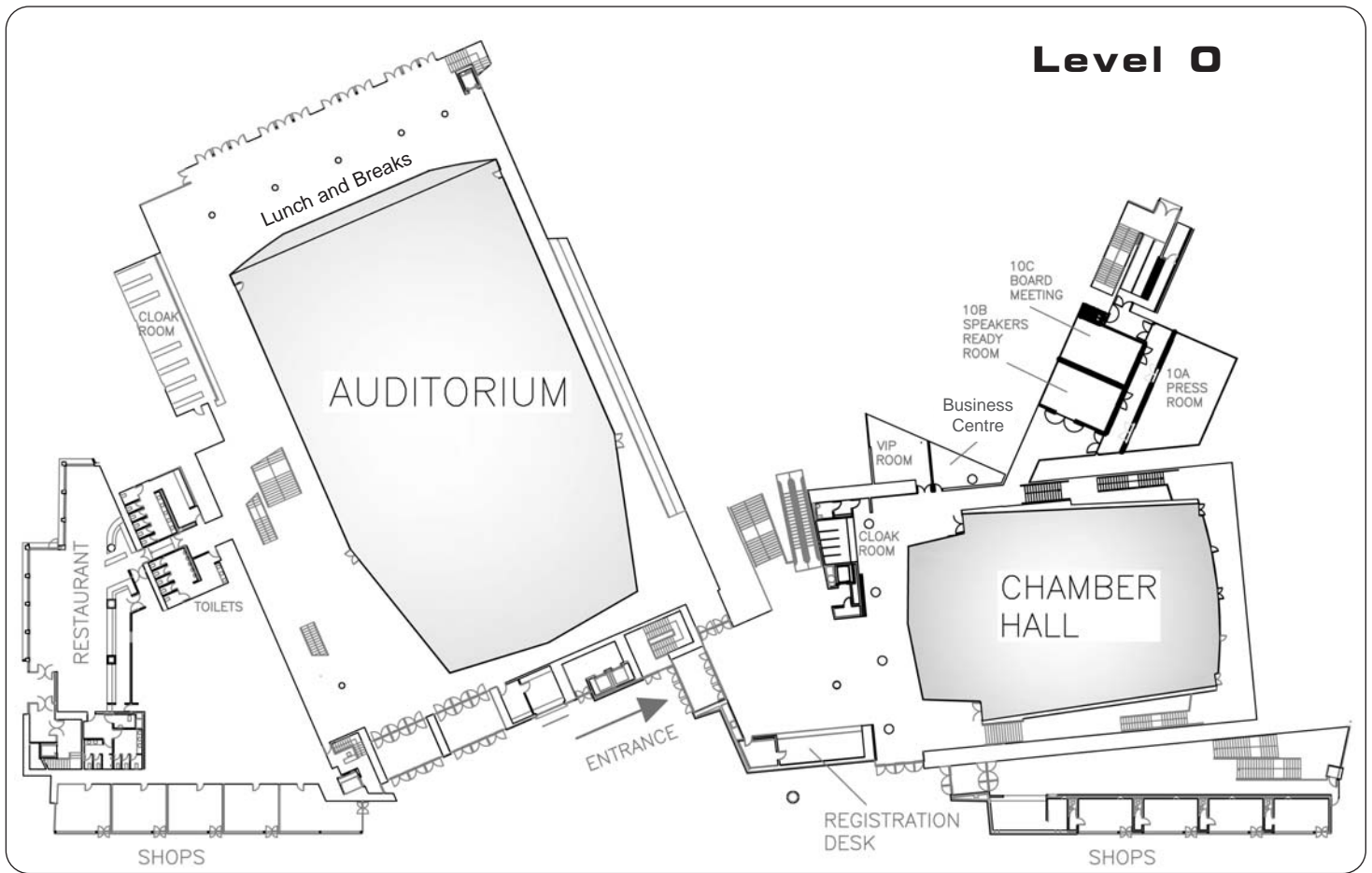
Helen Tager-Flusberg, Ph.D.
President, International Society for Autism Research

**Kursaal Centre — Floor Plan
Donostia / San Sebastián, Spain**



Level 1

Kursaal Centre – Floor Plan Donostia / San Sebastián, Spain



SCHEDULE-AT-A-GLANCE

WEDNESDAY May 1

12:00-19:00	Registration
19:30-20:30	Orchestra Concert - <i>Auditorium</i> (pre-registration is required, limited seating, free event to IMFAR attendees)

THURSDAY May 2

8:00-18:00	Registration		
9:00-17:00	Exhibits – <i>Foyer 1 outside of the Auditorium</i>		
9:00-9:15	Greetings from the IMFAR Organizers - <i>Auditorium</i>		
9:15-9:30	President Address: Helen Tager-Flusberg - <i>Auditorium</i>		
9:30-9:45	Introduction: Simons Foundation - Gerry Fischbach - <i>Auditorium</i>		
9:45-10:30	Keynote Address: Christopher Gillberg – How Severe Is Autism - Really? - <i>Auditorium</i>		
10:30-11:00	Break – <i>Exhibit Area/Poster Area</i>		
11:00-13:00	Educational Symposia – <i>Auditorium</i> Understanding the Scientific, Ethical and Social Challenges in Autism Biomarker Research		
11:00-13:00	Oral Session – <i>Chamber Hall</i> Late Breaking Abstracts	Oral Session – <i>Meeting Room 1 & 2</i> Epidemiology	Oral Session – <i>Meeting Room 3</i> Clinical Phenotype
13:00-14:15	Lunch provided – <i>stations throughout the Kursaal Centre</i>		
13:00-14:15	Student “Meet the Experts” Luncheon – pre-registration required - <i>Meeting Room 4 & 5</i>		
14:30-16:30	Educational Symposia – <i>Auditorium</i> Measuring Treatment Change in Core Symptoms: Novel Methods, Meaningful Outcomes		
14:30-16:30	Oral Session – <i>Chamber Hall</i> Screening and Diagnosis	Oral Session – <i>Meeting Room 1 & 2</i> Language Development	Oral Session – <i>Meeting Room 3</i> Medical and Emotional- Behavioral Comorbidity
16:30-17:00	Break – <i>Exhibit Area/Poster Area</i>		
17:00-18:30	INSAR Awards Ceremony - <i>Auditorium</i>		
19:00-20:30	Opening Reception – <i>San Telmo Museum (offsite)</i>		
20:45-23:30	INSAR Student Member Social/Dinner – <i>Cofradía Gastronómica (Basque Gastronomic Brotherhood) (offsite)</i>		
			9:00-13:00 Poster Sessions – <i>Banquet Hall</i> Animal Models of Autism Epidemiology Screening and Diagnosis Brain Imaging - Functional
			14:00-18:00 Poster Sessions – <i>Banquet Hall</i> Young Children, Schools Neuropathology Brain Imaging - Structural Adults, Lifespan, Methods Core Deficits I

❖ Presentations with this symbol may not be placed in a session within their subject area as they replaced withdrawn presentations.

► Abstracts with this symbol have been reviewed by the Cultural Diversity Committee and include an issue of cultural diversity (e.g., race, ethnicity, culture, socioeconomic status), a cross-cultural focus, or use a diverse population.

SCHEDULE-AT-A-GLANCE

FRIDAY May 3

SCHEDULE-AT-A-GLANCE

8:00-18:00	Registration			
7:30-9:00	SIG – Meeting Room 8 & 9	SIG – Meeting Room 1 & 2	SIG – Meeting Room 3	SIG – Meeting Room 4 & 5
9:00-17:00	Exhibits – Foyer 1 outside of the Auditorium			
9:00-9:15	Introduction: Autism Speaks - Geri Dawson - Auditorium			
9:15-10:00	Keynote Address: Dan Geschwind - Advances in Autism: Genetics Filling the Empty Fortress - Auditorium			9:00-13:00 Innovative Technologies Demonstration – Banquet Hall
10:00-10:30	Break – Exhibit Area/Poster Area			
10:30-12:30	Educational Symposia – Auditorium The Role of Environmental Exposures in Autism Etiology: A Retrospective of the Last Decade, New Results and Frontiers for the Future			Poster Sessions – Banquet Hall Neurophysiology 1 Treatments: Early Intervention Trials Core Deficits: Social Understanding Cognition and Behavior I: Sensory-Motor Processing Genetic Factors in ASD Brain Imaging - Structure/Function Correlation Treatments: Interventions in School Age, Adolescents and Adults and Social Skills Interventions
10:30-12:30	Oral Session – Chamber Hall Cell Biological Mechanisms	Oral Session – Meeting Room 1 & 2 Neurophysiology: (1) Perception and (2) Measurements of Treatment	Oral Session – Meeting Room 3 Stakeholder Experience	
12:30-13:45	Lunch provided – stations throughout the Kursaal Centre			
12:30-13:45	Cultural Diversity Networking Luncheon - Meeting Room 8 & 9			
12:30-13:45	Autism Community Stakeholder Luncheon - Meeting Room 4 & 5			
14:00-16:00	Educational Symposia – Auditorium Cerebellar Contribution to Autism Spectrum Disorders			14:00-18:00 Poster Sessions – Banquet Hall Cell Biological Mechanisms Neurophysiology 2 Broader Autism Phenotype Infant Cognition and Behavior Core Deficits: Language Development Common Genetic Variants in Autism Social Cognition - Theory of Mind Medical Co-Morbid Conditions Treatments: Interventions Focusing On Family (parent training, parent variables, siblings, etc) Cognition and Behavior II - Cognition
14:00-16:00	Oral Session – Chamber Hall Autism Pathways in Animal Models	Oral Session – Meeting Room 1&2 Infant Cognition and Behavior	Oral Session – Meeting Room 3 Services	
16:00-16:30	Break – Exhibit Area/Poster Area			
16:30-18:30	Educational Symposia – Auditorium ASD and ADHD: Familially Related?			
16:30-17:30	Scientific Panel – Chamber Hall 30-Year Follow-up of Autism in Adulthood	Scientific Panel – Meeting Room 1 & 2 Novel Methods and Paradigms for Studying Early Autism: A European Perspective	Scientific Panel – Meeting Room 3 From Genes to Behavior: Translational Approaches towards a Mechanistic Understanding of Insistence On Sameness (IS) in Autism	
17:30-18:30	Scientific Panel – Chamber Hall Beyond the RCT: Extending Delivery of the Early Start Denver Model in the Real World to Foster Best Practice	Scientific Panel – Meeting Room 1 & 2 Genomic and Systems Biological Approaches to Understanding Autism Spectrum Disorder	Scientific Panel – Meeting Room 3 The Insula and Anterior Cingulate Cortex: Saliency, Interoception, and Autism Symptoms	

SATURDAY May 4

8:00-15:00	Registration			
7:30-9:00	SIG – Meeting Room 8 & 9	SIG – Meeting Room 1 & 2	SIG – Meeting Room 3	SIG – Meeting Room 4 & 5
9:00-14:00	Exhibits – Foyer 1 outside of the Auditorium			
9:00-9:15	Introduction – Auditorium			
9:15-10:00	Keynote Address: Maureen Durkin - The Epidemiology of Autism Spectrum Disorder: Toward a More Inclusive World - Auditorium			9:00-13:00 Poster Sessions – Banquet Hall Cognition and Behavior Epigenetics and Gene-Environment Interaction Clinical Phenotype Mental Health Treatments: Psychopharmacological, Biomedical, Complementary and Technologically Based Interventions Infant Cognition and Behavior Cognition and Behavior III
10:00-10:30	Break – Exhibit Area/Poster Area			
10:30-12:30	Educational Symposia – Auditorium Reversing Autistic Symptoms from Mouse to Man			
10:30-12:30	Oral Session – Chamber Hall Genetics	Oral Session – Meeting Room 1 & 2 Brain Imaging	Oral Session – Meeting Room 3 Treatments: Behavioral Interventions	
12:30-13:45	Lunch provided – stations throughout the Kursaal Centre			
12:30-13:30	INSAR Business Meeting – Meeting Room 3			
14:00-16:00	Educational Symposia – Auditorium Parent Training and Parent Mediated Intervention in Diverse Contexts			
14:00-16:00	Oral Session – Chamber Hall Treatments: Medical and Behavioral Trials and Mechanisms	Oral Session – Meeting Room 1 & 2 Cognition: Perception, Memory, & Emotion		Oral Session – Meeting Room 3 Novel Perspectives On the ASD Phenotype

Special Interest Groups

Friday, May 3

7:30 - 9:00

Returning SIG: Autism SMIG 2013

Chairs: Allison Lane and Justin Williams

Meeting Room 8 & 9

Returning SIG: Females with ASD

Chairs: Alexandra Head and William Mandy

Meeting Room 1 & 2

New SIG: Relationship Between Criminal Justice Policy and ASDs

Chair: Laurie Sperry

Meeting Room 3

New SIG: Technology and Autism — Developing a Framework for Best Practice in Design, Development, Evaluation and Dissemination of Autism-Specific Technologies

Chair: Sue Fletcher-Watson

Meeting Room 4 & 5

Saturday, May 4

7:30 - 9:00

New SIG: Minimally Verbal Individuals

Chairs: Nancy Jones, Ph.D., Terry Katz, Ph.D., Connie Kasari, Ph.D.

Meeting Room 8 & 9

New SIG: Approaching Adulthood: Transitional and Vocational Issues

Chairs: David Nicholas and Lonnie Zwaigenbaum

Meeting Room 1 & 2

Returning SIG: Autism Social, Ethical, and Legal Research

Chairs: Liz Pellicano, Bryna Siegel and Michael Yudell

Meeting Room 3

Returning SIG: Global Knowledge Translation for Research on Early Identification and Intervention in Autism

Chairs: Mayada Elsabbagh and Petrus de Vries

Meeting Room 4 & 5

Speaker-Ready Room for Oral Presenters

Location: Room 10B

All speakers should stop by the Speaker-Ready Room to upload their slides prior to their presentation time. A staff person will be available to help speakers upload their slides and other files. If at all possible, please upload your slides the day before your presentation. The Speaker-Ready Room will be open as noted below:

Wednesday, May 1	15:00 - 18:00
Thursday, May 2	8:00 - 17:00
Friday, May 3	8:00 - 17:00
Saturday, May 4	8:00 - 13:50

If speakers do not upload their slides ahead of time, they can still load them on to the computer before they present. However, if there are problems loading the presentation just before presenting, the speaker runs the risk of using up his / her presentation time.

Future IMFAR Annual Meeting Dates

2014

Atlanta, Georgia, USA

May 15-17, 2014

2015

Salt Lake City, Utah, USA

May 14-16, 2015

Wednesday, May 1

Orchestra Concert

19:30 – 20:30 • Kursaal Centre – Auditorium

This event is the evening prior to the IMFAR meeting. The Basque National Orchestra will offer a special private concert, where all IMFAR participants will be welcomed. In this concert, there will be the performance of James Hobley, a 12-year-old adolescent from England who, despite presenting ASD, has received numerous awards and great recognition for his passion and excellence in dance. This event is limited and pre-registration was required. If you pre-registered, tickets were included in your registration materials. The ticket is required for admittance to this event but there is no fee. This concert will take place at the Kursaal Centre.

If the event isn't full, tickets will be available at the IMFAR Registration desk.

Thursday, May 2

Student "Meet-the-Experts" Roundtable Luncheon

(by pre-registration only)

13:00 – 14:15 • Kursaal Centre – Meeting Room 4 & 5

Student scientists and postdoctoral researchers, bring your lunch and network with expert autism scientists in a unique and informal format. Sit at a roundtable with the autism expert of your choice, who will share experiences about their career, research from their laboratory and advice on how to build a successful research career.

Reservations were accepted prior to the Meeting and were open to current INSAR student members (graduate, medical and postdoctoral students). Seating is limited.

Pre-registration is required.

Opening Reception

19:00 – 20:30 • San Telmo Museum

Come network with other IMFAR attendees. This event is limited and pre-registration was required. If you pre-registered, tickets were included in your registration materials. Tickets will be required for admittance but there is no fee for this event. The reception will take place at the San Telmo Museum, located nearby the Kursaal Centre. If the event isn't full, tickets will be available at the IMFAR Registration desk.

Student Member Social Event / Dinner

20:45 – 23:30 • Basque Gastronomic Brotherhood

Student members are invited to attend the fourth annual Student Social Event at the Basque Gastronomic Brotherhood (Elvira Zipitria St.). This event, funded by INSAR, is organized to give student members a social setting to meet old friends and make new ones. This year's event will be a sit down dinner and pre-registration was required. Tickets will be required for admittance but there is no fee for this event. If the event isn't full, tickets will be available at the IMFAR Registration desk.

Friday, May 3

Community Advisory Committee (CAC) Autism Community Stakeholder* Luncheon

12:30 – 13:45 • Kursaal Centre – Meeting Room 4 & 5

Bring your lunch to the room. This event is sponsored by Autism Speaks. Pre-registration is not required. Capacity is limited to 100.

*Community stakeholders include individuals living with autism and their families / caretakers.

Cultural Diversity Networking Luncheon

12:30 – 13:45 • Kursaal Centre – Meeting Room 8 & 9

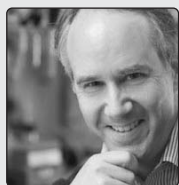
Bring your lunch to the room. Pre-registration is not required.

IMFAR 2013 KEYNOTE SPEAKERS



Maureen Durkin, Ph.D., DrPH

Dr. Maureen Durkin is an epidemiologist, Professor of Population Health Sciences and Pediatrics, and Waisman Center investigator at the University of Wisconsin School of Medicine and Public Health. She received her undergraduate degree and Ph.D. in anthropology from the University of Wisconsin-Madison, and her M.P.H. and Dr.P.H. degrees in epidemiology from Columbia University. Her research interests include the epidemiology, prevention, antecedents and consequences of neurodevelopmental disabilities and childhood injuries. She has collaborated in the development of cross-cultural methods for screening for developmental disabilities and methods for surveillance of childhood injuries, and has directed international studies of the prevalence and causes of neurodevelopmental disabilities in low income countries. Dr. Durkin has also directed cohort studies of neuropsychological outcomes of neonatal brain injuries associated with preterm birth and with metabolic disorders detected on newborn screening, and is currently principal investigator of the Wisconsin site of the Center for Disease Control and Prevention's Autism and Developmental Disabilities Monitoring Network.



Daniel Geschwind, M.D., Ph.D.

Dr. Daniel Geschwind is the Gordon and Virginia MacDonald Distinguished Chair in Human Genetics and is a professor of neurology and psychiatry at the UCLA School of Medicine. He is director of the Neurogenetics Program and the Center for Autism Research and Treatment (CART) and co-director of the Center for Neurobehavioral Genetics at UCLA. Dr. Geschwind obtained an A.B. in psychology and chemistry at Dartmouth College and his M.D. / Ph.D. at Yale School of Medicine prior to completing his internship, residency (Neurology), and postdoctoral fellowship at UCLA. He joined the UCLA faculty in 1997. His laboratory works to improve our understanding of human neuropsychiatric diseases, such as autism and neurodegenerative diseases. The lab's approach relies heavily on systems level integration involving computational and bioinformatic methods in addition to wet laboratory experimentation. Dr. Geschwind has also put considerable effort into fostering large-scale collaborative patient resources for genetic research and data sharing. He is a strong advocate for data and biomaterial sharing, having provided scientific oversight for the Autism Genetic Resource Exchange (AGRE). He sits on several scientific advisory boards, including the Faculty of 1000 Medicine, the Executive Committee of the American Neurological Association, and the NIH Council of Councils. He received the Derek Denny-Brown Neurological Scholar Award from the American Neurological Association in 2004, the Scientific Service Award from Autism Speaks in 2007 and is a member of the Institute of Medicine.



Christopher Gillberg, M.D., Ph.D.

Dr. Christopher Gillberg is a university hospital Chief Physician at Child Neuropsychiatry Clinic and, since the mid-1980s, Professor of Child and Adolescent Psychiatry at the University of Gothenburg, a title he also holds at the University of Glasgow as of 2010. He is also an Honorary Professor of Child and Adolescent Psychiatry at the Institute of Child Health at University College in London and works as a consultant for universities in Bergen, Norway (where he has spearheaded the major project "Children in Bergen") and for the GNC hub at Kōchi in Japan. Christopher Gillberg has authored over 500 peer-reviewed articles on autism, Asperger syndrome, ADHD, intellectual disabilities, Tourette's syndrome and eating disorders as well as other areas relevant to the mental health and neurological development of children and adolescents. Dr. Gillberg has written several books, which have been published in a wide variety of languages. He is the most prolific researcher of autism in the world. His research ranges from basic neuroscience to epidemiology, clinical presentation and prognosis, through to intervention and treatment. He has received several awards for his research and has among other accolades received the King's medal of the Seraphim order (2009) and the Söderberg Prize for Medicine (2012). He supervises many research students at Gillberg Neuropsychiatry Centre (www.gnc.gu.se) and at other institutions.

Lifetime Achievement Award

The Lifetime Achievement Award is given annually by the Executive Board of the International Society for Autism Research. This award acknowledges an individual who has made significant fundamental contributions to research on autism spectrum disorders that have had a lasting impact on the field. The focus of the awardee's research can be in any discipline.

Patricia Howlin



Patricia Howlin is Emeritus Professor of Clinical Child Psychology at the Institute of Psychiatry, London and Professor of Developmental Disorders at the University of Sydney. She trained as a clinical psychologist at the Institute of Psychiatry and Maudsley Hospital London and has worked both as a clinician and researcher in the field of autism for over 45 years. Her first research, on the effectiveness of home-based interventions for children with autism, was conducted at a time when most children with this condition in the UK were treated in in-patient hospital settings. This work was conducted in association with Professor Michael Rutter and since that time she has collaborated with him on a number of projects exploring the developmental trajectories of individuals with autism from child to adulthood. She has also been involved in research on the transition to adulthood in individuals with other developmental conditions including William's syndrome and specific language disorders. Her intervention research has focused on the effectiveness of different treatments for children and adults with autism and she has conducted evaluations of a variety of therapies, including early intervention programmes, non-verbal communication training, teaching theory of mind, and supported employment. Dr. Howlin has a Ph.D. in Psychology and is a Fellow of the British Psychological Society. She was the first person in the UK to be made a Professor of Clinical Child Psychology and was a founder editor of the *UK Journal Autism: The International Journal of Research and Practice*. In 2011 she received the Autism Association of Western Australia Award for services to autism.

INSAR Advocate Award

This award honors community members / advocates who have influenced the ability to carry out autism research.

Dame Stephanie Shirley



Dame Stephanie Shirley (79) is a successful IT entrepreneur turned ardent philanthropist.

Having arrived in Britain as an unaccompanied child refugee, she started a software house in 1962 that pioneered new work practices and changed the position of professional women (especially in hi-tech) along the way.

Since retiring in 1993, her focus has been increasingly on philanthropy based on her strong belief in giving back to society. Her charitable Shirley Foundation has initiated and funded a number of projects that are pioneering by nature, strategic in impact and significant in money terms. Her primary focus is on her late son's disorder of autism.

Dame Stephanie, known as Steve, is one of the 100 most powerful women in Britain. Her memoir *Let IT Go* published on 29 October as an Ebook with Print on Demand from Amazon, is currently on the shortlist for the People's Book Prize.

SLIFKA / RITVO Innovation in Autism Research Awards

The Alan B. Slifka Foundation seeks to promote innovative research on autism spectrum disorders that will lead to innovative treatments and improvements in the quality of life of individuals with autism. The Foundation wishes to partner with INSAR in honoring the most meritorious and innovative presentations at the IMFAR Annual Meeting. The Foundation will provide two research awards: one to a clinical researcher (diagnosis or treatment of autism or educational efforts) the other to a basic researcher (epidemiology, genetics, neuroscience, immunology, etc). The recipients of the Slifka / Ritvo Awards will be announced at the Awards Ceremony at the IMFAR Annual Meeting.

Bios provided by recipients

Diversity Awards

Diversity Travel Awards are provided to individuals studying in or working in autism research in health related institutions, universities, or public agencies. The awards will be given to persons from racial, ethnic, and disability groups that have been historically under-represented in the sciences in their home country. The awards will provide a stipend of \$1,000. The purpose of the awards is to increase the participation of individuals currently underrepresented in the biomedical, clinical, behavioral and social sciences, defined as: 1. individuals from underrepresented racial and ethnic groups and / or 2. individuals with disabilities.

Elgiz Bal	CNMC
Heather Brown	Western University
Aurora Constantin	University of Edinburgh
Aisha Dickerson	University of Texas Health Science Center
Anthony Goodwin	University of Connecticut
Mohammed Habash	Leeds Metropolitan University
Dasal Jashar	University of Connecticut
Hwan Cui Koh	KK Women's and Children's Hospital
Christie Enjey Lin	University of California, Los Angeles
Cathy Qi	University of New Mexico
Dheeraj Rai	University of Bristol
HyeKyeung Seung	California State University
Joyce Suh	University of Connecticut
Sandra Vanegas	Loyola University Chicago
Catherine Wan	Beth Israel Deaconess Medical Center

Young Investigator Awards

Young Investigator Awards will be made for the best biological and clinical empirical research papers published or in press in the 2012 by an investigator who has been awarded their Ph.D. or M.D. in the past seven years. These two awards will provide a stipend of \$1,500 each.

Genevieve Konopka	UT Southwestern Medical Center
Jason Wolff	University of North Carolina - Chapel Hill

Dissertation Awards

Dissertation Awards are given annually to active scientists and clinicians working in all aspects of autism research. One award will be for the best basic science dissertation and one for the best clinical / behavioral dissertation in autism accepted by the university in the year 2012. These awards provide a stipend of \$1,500 each.

Roger Jou	Yale University
Matthew Lerner	University of Virginia
Jeffrey D. Rudie	UCLA
Xiang Sun	University of Cambridge

IMFAR 2013 AWARDEES

Student Travel Awards

Student Travel Awards are available to graduate students, postdoctoral fellows, and medical students and residents actively engaged in autism research. The award will provide a \$500 stipend. The first priority is given to students who are presenting their own original research at IMFAR 2013 and who have not received an IMFAR Student Award before.

Danielle Abrams
Lindsay Allerton
Laura Anderson
Joaquin Anguera
Elgiz Bal
Elise Barbeau
Nicole Barger
Eyal Ben-David
Ainsley Boudreau
Lauren Bradstreet
Bianca Brooks
Daniel Campbell
Nicholas Campbell
Cara Damiano
Aishani Desai
Andrea Diaz-Stransky
Ashley R. Dillon
Krissey A. R. Doyle-Thomas
Ellen Drumm
Allison Fitch
Veronica Fleury
Nicholas Foster
Terisa Gabrielsen
Isobel Gammer
Clare Gibbard
Sarah Glazer
Yael Granader
Lauren Haisley
Sarah F. Hannigen
John Hegarty II
Tomoko Isomura
Dasal Jashar
Jamil Jivraj
Rebecca Jones
Emma Kelty-Stephen
Eugene Kim
Geza Kiss
Sarah Logan
Maria Ly
Evelyne Marcil
Nicole Matthews
Rebecca McKavanagh
Allison Meyer
Jennifer Moriuchi

Georgia State University
University of Wisconsin Waisman Center
Yale Child Neuroscience Lab
University of California San Francisco
CNMC
University of Montreal
M.I.N.D. Institute, University of CA, Davis
Hebrew University of Jerusalem, Israel
Dalhousie University
Georgia State University
Georgia State University
Yale University
Vanderbilt University
University of North Carolina - Chapel Hill
Yale Child Study Center
Kennedy Krieger Institute

Holland Bloorview Kids Rehab. Hospital
University of Toronto
University of Connecticut
FPG Child Development Institute
McGill University
Children's Hospital of Philadelphia
Institute of Education, University of London
UCL Institute of Child Health
Marcus Autism Center, Atlanta
Children's National Medical Center
University of Connecticut
University of Pittsburgh
University of Missouri, Columbia
Primate Research Institute
University of Connecticut
Dept. of Pediatrics, University of Alberta

University of Connecticut
Marcus Autism Center
CSLU, OHSU
Medical University of South Carolina
Marcus Autism Center
McGill
University of CA - Irvine
University of Oxford
University of North Carolina, Chapel Hill

Cora Mukerji
Anne-Marie Nader
Allison Nahmias
Aarti Nair
Mary Beth Nebel
Chiara Nicolini
Stephanie Novotny
Heather Nuske
Brian O'Rook
Niicolaas Puts
Kayla Quinnies
Allison Ratto
Shannon Rose
Kayla Sargent
Tal Savion-Lemieux
Martin Schulte-Rüther
Anne Seery
Nicole Shea
Justin Siemann
Sheryl Stevens
Ryan Stevenson
Joyce Suh
Karen Tang
Claire Thomas
Rachael Tillman
Ana Tryfon
Peng-Chou Tsai
Catherine Wan
Paige Weinger
Elizabeth Worcester
Rachel Zamzow

Yale Child Study Center

University of Pennsylvania
SDSU / UCSD Joint Doctoral Program
Johns Hopkins School of Medicine
McMaster University
University of California, Davis
La Trobe University
University of Washington
Johns Hopkins University
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UNC - Chapel Hill
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Georgia State University
Montreal Children's Hospital
University Hospital Aachen

Syracuse University
Vanderbilt University
Marquette University
Vanderbilt University Medical Center
University of Connecticut
University of Notre Dame
City University London
Yale Child Study Center
McGill University
Johns Hopkins Bloomberg School of P. H.
Beth Israel Deaconess Medical Center
Yeshiva University
University of California, San Diego
University of Missouri

Professionals from Developing Countries Awards

Awards are provided to those Professionals from Developing Countries who are engaged in autism research. The awards provide a stipend of \$1,000 each.

Sebastian Cukier
Amaicha Depino
Viviana Ensenat
Sabri Herguner
Cecilia Montiel-Nava
Joy Okpuzor
Subash Selvaraju
Carla Sesarini
Chongying Wang
Li Yi

Panaacea
IFIBYNE, CONICET
British Hospital of Buenos Aires
NE University
La Universidad del Zulia
University of Lagos, Nigeria
Sultan Qaboos University
ICBME, Hospital Italiano de Buenos Aires
Nankai University
Dept. of Psychology, Sun Yat-sen University

IMFAR 2013

Annual Meeting abstracts

are available online

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ACKNOWLEDGMENTS

The International Society for Autism Research (INSAR) is the professional organization that oversees the annual International Meeting for Autism Research (IMFAR). INSAR is responsible for appointing all committees that govern the organization and approving the content and format of the Annual Meeting.

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THURSDAY May 2, 2013 - AM

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THURSDAY - AM

8:00-18:00	Registration		
9:00-17:00	Exhibits – Foyer 1 outside of the Auditorium		
9:00-9:15	Greetings from the IMFAR Organizers - Auditorium		
9:15-9:30	President Address: Helen Tager-Flusberg - Auditorium		9:00-13:00
9:30-9:45	Introduction: Simons Foundation - Gerry Fischbach - Auditorium		Poster Sessions – Banquet Hall Animal Models of Autism Epidemiology Screening and Diagnosis Brain Imaging - Functional
9:45-10:30	Keynote Address: Christopher Gillberg – How Severe Is Autism - Really? - Auditorium		
10:30-11:00	Break – Exhibit Area/Poster Area		
11:00-13:00	Educational Symposia – Auditorium Understanding the Scientific, Ethical and Social Challenges in Autism Biomarker Research		
11:00-13:00	Oral Session – Chamber Hall Late Breaking Abstracts	Oral Session – Meeting Room 1 & 2 Epidemiology	Oral Session – Meeting Room 3 Clinical Phenotype
13:00-14:15	Lunch provided – stations throughout the Kursaal Centre		
13:00-14:15	Student “Meet the Experts” Luncheon – pre-registration required - Meeting Room 4 & 5		

Keynote Address

100 - How Severe Is Autism – Really?

9:45 - 10:30 - Auditorium

Speaker: Christopher Gillberg; *Gillberg Neuropsychiatry Centre, University of Gothenburg*

This session reviews the coexisting problems that usually exist in individuals with a diagnosis of autism spectrum disorder. It concludes on the note that it is possibly these associated problems and disorders which often drive the poor outcome that so many people now almost take for granted will be a consequence of autism in the longer term perspective. Language disorders, intellectual developmental disorders, non-verbal learning disability, epilepsy, medical disorders such as tuberous sclerosis and fragile X syndrome, ADHD, and depression are often the “real” cause of negative outcome in autism. Many people in the general population have marked autistic features without major “lifetime impairment.” The focus on autism only in early intervention programs is most likely a mistake.

Educational Symposium

101 - Understanding the Scientific, Ethical and Social Challenges in Autism Biomarker Research

11:00 - 13:00 - Auditorium

Session Chair: P. Ashwood; *The M.I.N.D. Institute, University of California, Davis*

While the development of a blood biomarker as a screening or diagnostic tool for autism spectrum disorders is of great interest to the scientific and medical communities, it is also attracting intense scrutiny from other stakeholders including people with autism, ethicists, and parents. This symposium will therefore address the scientific, ethical and social challenges associated with the development of biomarkers for autism, and provide an update on the current

status of research in this field. We will describe how the heterogeneity of autism, gender bias, and potential comorbidities could derail the promise of identifying objective, reliable, and universally accepted biomarkers. We will consider the ethical and social issues relating to the development of biomarkers for autism in order to identify and describe the implications for the ‘difference versus disability’ debate; as well as consider possible wider tensions of biomarker research in relation to issues such as pre-natal screening and reproductive choice, and identity and inclusion for individuals on the autistic spectrum. Finally, we will summarize the most promising research on blood biomarkers for autism, describing the required steps to take a putative biomarker from the ‘bench to the bedside’. This educational symposium brings together researchers from scientific, ethical and psychological disciplines to provide a unique perspective on the utility of biomarkers for ascertaining autism risk, aiding in diagnosis and identifying therapeutic targets, all within the framework of the relevant ethical and social considerations.

- 11:00 101.001 Scientific Challenges in the Development of Putative Autism Biomarkers. L. Hewitson, The Johnson Center for Child Health and Development, Austin, TX
- 11:30 101.002 Social Challenges and Opportunities Surrounding the Development of Biomarkers for Autism. N. Humphrey, University of Manchester, Manchester, United Kingdom
- 12:00 101.003 Biomarkers for Autism: Ethical Issues Arising From Their Use in Diagnosis and Screening. P. Walsh, King’s College London, London, United Kingdom
- 12:30 101.004 The Status of Biomarker Research for Autism Spectrum Disorders: Recent Progress and Future Directions. P. Ashwood, Medical Microbiology and Immunology, The M.I.N.D. Institute, University of California, Davis, Sacramento, CA

Oral Sessions

102 - Late Breaking Abstracts

11:00 - 13:00 - Chamber Hall

- 11:00 102.001 Randomized, Controlled, Phase 2 Trial of STX209 for Social Function in ASD. J. Veenstra-VanderWeele¹, L. Sikich², R. Melmed³, J. S. von Hehn⁴, K. L. Walton-Bowen⁴, N. Kuriyama⁴, M. Cherubini⁴, P. Zarevics⁴, R. L. Carpenter⁴, M. F. Bear⁵, P. Wang⁴ and E. H. Cook⁶, (1)Psychiatry, Pediatrics, and Pharmacology, Vanderbilt University, Nashville, TN, (2)The University of North Carolina at Chapel Hill, Chapel Hill, NC, (3)Southwest Autism Research Center and Melmed Cente, Scottsdale, AZ, (4)Seaside Therapeutics, Cambridge, MA, (5)Picower Institute for Learning and Memory, MIT & HHMI, Cambridge, MA, (6)Psychiatry, University of Illinois at Chicago, Chicago, IL
- 11:15 102.002 Adaptive Intervention for Communication in Minimally Verbal School-Aged Children. C. Kasari¹, A. P. Kaiser², K. Goods³, M. Y. Roberts², P. Mathy⁴, R. Landa⁴, C. Mucchetti⁵ and D. Almirall⁶, (1)Psychiatry, University of California, Los Angeles, Los Angeles, CA, (2)Vanderbilt University, Nashville, TN, (3)University of California, Los Angeles, Los Angeles, CA, (4)Kennedy Krieger Institute, Baltimore, MD, (5)UCLA, Valley Village, CA, (6)Biostatistics, University of Michigan, Ann Arbor, MI
- 11:30 102.003 The Autism Epidemic Hypothesis: the Association of Autism with Age in the General Population. T. Brugha¹ and F. Tyrer², (1)University of Leicester, Leicester, United Kingdom, (2)Health Sciences, University of Leicester, Leicester, United Kingdom
- 11:45 102.004 A Suppressor Screen of Mouse Mecp2 Implicates Cholesterol Metabolism in Rett Syndrome. C. M. Buchovecky¹, S. M. Kyle¹, S. D. Turley² and M. J. Justice¹, (1)Molecular and Human Genetics, Baylor College of Medicine, Houston, TX, (2)Department of Internal Medicine, University of Texas Southwestern Medical School, Dallas, TX
- 12:00 102.005 Prenatal Exposure to Autism-Specific Maternal Autoantibodies Impairs Proliferation of Neural Precursor Cells, Neuronal Morphology and Animal Behavior. V. Martinez Cerdeno¹, Institute for Pediatric Regenerative Medicine, Sacramento, CA
- 12:15 102.006 Resolution of the Factoral Structure of Quantitative Autistic Symptomatology in 11, 000 Assessments of School-Aged Children and Adults. T. W. Frazier¹, C. Gruber², P. A. Law³ and J. N. Constantino⁴, (1)Center for Autism, Cleveland Clinic Lerner College of Medicine, Cleveland, OH, (2)Western Psychological Services, Los Angeles, CA, (3)Kennedy Krieger Institute, Baltimore, MD, (4)Washington University School of Medicine, Saint Louis, MO
- 12:30 102.007 Modeling the Phenotypic Architecture of Autism Symptoms From Time of Diagnosis to Age 6. S. Georgiades¹, M. Boyle¹, P. Szatmari¹, S. Hanna¹, E. Duku¹, L. Zwaigenbaum², S. E. Bryson³, E. Fombonne⁴, P. Miranda⁵, I. M. Smith⁵, W. Roberts⁶, T. Vaillancourt⁷, J. Volden⁸, C. Waddell⁹, T. Bennett¹, M. Elsabbagh¹⁰ and A. Thompson¹, (1)Offord Centre for Child Studies & McMaster University, Hamilton, ON, Canada, (2)Glenrose Rehabilitation Hospital, University of Alberta, Edmonton, AB, Canada, (3)Dalhousie / IWK Health Centre, Halifax, NS, Canada, (4)Montreal Children's Hospital, Montreal, QC, Canada, (5)University of British Columbia, Vancouver, BC, Canada, (6)University of Toronto, Toronto, ON, Canada, (7)University of Ottawa, Ottawa, ON, Canada, (8)University of Alberta, Edmonton, AB, Canada, (9)Simon Fraser University, Burnaby, BC, Canada, (10)Department of Psychiatry, McGill University, Montreal, QC, Canada

- 12:45 102.008 Exploring the Underdiagnosis and Prevalence of Autism in Mainland China. X. Sun¹, C. Allison², F. E. Matthews³, X. Z. Zhang⁴, B. Auyeung⁵, S. Baron-Cohen² and C. Brayne⁶, (1)University of Cambridge, Cambridge, England, United Kingdom, (2)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (3)Institute of Public Health, University of Cambridge, Cambridge, United Kingdom, (4)Pediatric Department, Peking University First Hospital, Beijing, China, (5)University of Cambridge, Cambridge, United Kingdom, (6)Department of Public Health and Primary Care, University of Cambridge, Cambridge, United Kingdom

Oral Sessions

103 - Clinical Phenotype

11:00 - 13:00 - Meeting Room 3

- 11:00 103.001 Sensory Subtypes in Children with ASD and Associated Outcomes: Latent Profile Transition Analysis Using a National Survey of Sensory Features. K. K. Ausderau¹, G. T. Baranek², J. Sideris³, M. Furlong⁴, L. M. Little⁵ and J. Bulluck⁴, (1)Campus Box 7118, University of North Carolina, Chapel Hill, NC, (2)University of North Carolina at Chapel Hill, Chapel Hill, NC, (3)University of North Carolina at Chapel Hill, Frank Porter Graham Child Development Institute, Chapel Hill, NC, (4)Department of Allied Health Sciences, University of North Carolina at Chapel Hill, Chapel Hill, NC, (5)University of North Carolina at Chapel Hill, Carrboro, NC
- 11:15 103.002 Sensory Hyposensitivity Is Associated with More Severe Clinical Presentation in Autism Spectrum Disorders. D. A. Zachor¹ and E. Ben Itzhak², (1)Tel Aviv University / Assaf Harofeh Medical Center, Zerifin, Israel, (2)Ariel University Center / Assaf Harofeh Medical Center, Givat Shmuel, Israel
- 11:30 103.003 Behavioral Topographies That Adversely Impact Dynamic Visual Scanning in Adolescents with ASD. E. M. Kim¹, W. Jones and A. Klin, Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA
- 11:45 103.004 Characterization of Autism Phenotypes Using Sensory Features. A. E. Lane¹, S. L. Bishop², C. A. Molloy³ and P. Manning-Courtney⁴, (1)The Ohio State University, Columbus, OH, (2)Center for Autism and the Developing Brain, Weill Cornell Medical College, White Plains, NY, (3)Harrison Community Network, Harrison, OH, (4)Cincinnati Children's Hospital Medical Center, Cincinnati, OH
- 12:00 103.005 How an Enhanced Program on Attention to Emotion Affect Viewing Preferences to Social Information in Children with Autism Spectrum Disorder (ASD): An Eye-Tracking Study. R. Siracusano¹, L. Billeci², G. Crifaci³, M. Boncoddò⁴, M. Ciuffo⁴, E. Germanò⁴, G. Tortorella¹, G. Pioggia⁵, R. A. Fabio⁴ and A. Gagliano⁴, (1)Universita' di Messina, Messina, Italy, (2)CNR, Pisa, Italy, (3)National Research Council of Italy (CNR), Institute of Clinical Physiology (IFC), Pisa, Italy, (4)Università di Messina, Messina, Italy, (5)Institute of Clinical Physiology, National Research Council (CNR), Pisa, Italy
- 12:15 103.006 Parenting Behaviour in Mothers of Children with Autism Spectrum Disorder: Relations with Child's Age, Gender, and Behaviour Problems. J. P. W. Maljaars^{1,2}, G. Lambrechts^{1,2}, H. Boonen^{1,2}, K. Van Leeuwen¹ and I. Noens^{1,2}, (1)Parenting and Special Education Research Unit, University of Leuven (KU Leuven), Leuven, Belgium, (2)Leuven Autism Research (LAuRes), University of Leuven (KU Leuven), Leuven, Belgium

12:30 103.007 Gaze Patterns During an Eye-Tracking Measure of Joint Attention in Typically Developing Children and Children with Autism Spectrum Disorder. M. R. Swanson¹ and M. Siller, Psychology, Hunter College of the City University of New York, New York, NY

12:15 104.006 Insecticides and Autism: Overview and New Results From the Charge Study. I. Hertz-Picciotto^{1,2}, L. Delwiche², F. Tassone¹, D. Bennett², D. J. Tancredi³, R. Hansen⁴, S. Ozonoff¹ and I. N. Pessah¹, (1)UC Davis M.I.N.D. Institute, Sacramento, CA, (2)Public Health Sciences, UC Davis, Davis, CA, (3)UC Davis School of Medicine, Sacramento, CA, (4)The M.I.N.D. Institute, University of California, Davis, Sacramento, CA

Oral Sessions

104 - Epidemiology

11:00 - 13:00 - Meeting Room 1-2

11:00 104.001 The ASD Phenotype in Neurofibromatosis Type 1: Evidence From a Two-Phase Population-Based Epidemiological Study. S. Garg¹, K. Leadbitter¹, R. Emsley¹, A. Lehtonen², D. Trump², G. Evans², S. M. Huson² and J. Green¹, (1)University of Manchester, Manchester, United Kingdom, (2)Genetic Medicine, Central Manchester University Hospitals NHS Foundation Trust, Manchester, United Kingdom

12:30 ▶ 104.007 Early Identification of Autism in Spain: Exploring Diverse Possibilities with the MCHAT. P. Garcia Primo^{1,2}, R. Canal-Bedia², M. Magán Maganto², M. V. Martín Cilleros², B. Esteban Manjón², I. Guerra Juanes², A. Zermeño Perez², M. M. Herráez² and M. Posada¹, (1)Carlos III National Institute of Health, Madrid, Spain, (2)University of Salamanca, Salamanca, Spain

12:45 104.008 Using Standardized Diagnostic Instruments to Classify Children with an Autism Spectrum Disorder in the Study to Explore Early Development. L. D. Wiggins¹, A. M. Reynolds², C. E. Rice³, E. Moody⁴, P. Bernal⁵, L. Blaskey⁶, S. Rosenberg⁷, L. C. Lee⁸ and S. E. Levy⁹, (1)Centers for Disease Control and Prevention, Atlanta, GA, (2)University of Colorado Denver, Aurora, CO, (3)National Center on Birth Defects and Developmental Disabilities, Atlanta, GA, (4)University of Colorado, Denver, Aurora, CO, (5)Kaiser Permanente, San Jose, CA, (6)Radiology, Children's Hospital of Philadelphia, Philadelphia, PA, (7)University of Colorado, Aurora, CO, (8)Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (9)Division of Child Development, Children's Hospital of Philadelphia, Philadelphia, PA

11:15 104.002 Association Between ART Conception and Autism in California 1997-2007. C. Fountain¹, Y. Zhang², D. Kissin², L. A. Schieve³, D. Jamieson², C. E. Rice³ and P. S. Bearman⁴, (1)Sociology & Anthropology, Fordham University, New York, NY, (2)Centers for Disease Control and Prevention, Atlanta, GA, (3)National Center on Birth Defects and Developmental Disabilities, Atlanta, GA, (4)Columbia University, New York, NY

11:30 104.003 Prenatal Exposure to Perfluorinated Compounds (PFC) and Autism Spectrum Disorders: Results From the Early Markers for Autism Study. V. Yau¹, C. Yoshida², R. Hansen³, M. Kharrazi⁴, A. Calafat⁵, G. C. Windham⁶ and L. A. Croen⁷, (1)Division of Research, Kaiser Permanente, Oakland, CA, (2)Kaiser Permanente, Oakland, CA, (3)The M.I.N.D. Institute, University of California, Davis, University of California, Davis, Sacramento, CA, (4)Genetic Disease Screening Program, California Department of Public Health, Richmond, CA, (5)National Center for Environmental Health, Centers for Disease Control and Prevention, Atlanta, GA, (6)California Dept of Public Health, Richmond, CA, (7)Kaiser Permanente Division of Research, Oakland, CA

11:45 104.004 Maternal Depression, Antidepressant Use During Pregnancy, and Offspring Autism Spectrum Disorders: Population-Based Study. D. Rai^{1,2}, B. K. Lee³, C. Dalman², J. Golding⁴, G. Lewis¹ and C. Magnusson², (1)Academic Unit of Psychiatry, University of Bristol, Bristol, United Kingdom, (2)Department of Public Health Sciences, Karolinska Institutet, Stockholm, Sweden, (3)Drexel University School of Public Health, Philadelphia, PA, (4)University of Bristol, Bristol, United Kingdom

12:00 ▶ 104.005 Role of Vegetables and Seafood Consumption in Blood Manganese Concentrations in Jamaican Children with and without Autism Spectrum Disorders. M. H. Rahbar^{1,2}, M. Samms-Vaughan³, A. S. Dickerson^{1,2}, K. A. Loveland⁴, M. Ardjomand-Hessabi¹, J. Bressler⁵, S. Shakespeare-Pellington³, M. L. Grove⁵, D. A. Pearson⁶ and E. Boerwinkle^{2,5}, (1)Biostatistics, Epidemiology, Research Design (BERD) Core, Center for Clinical and Translational Sciences (CCTS), The University of Texas Health Science Center at Houston, Houston, TX, (2)Division of Epidemiology, Human Genetics and Environmental Sciences, The University of Texas School of Public Health at Houston, Houston, TX, (3)Department of Child Health, The University of the West Indies, Kingston, Jamaica, (4)Psychiatry & Behavioral Sciences, University of Texas Medical School, Houston, TX, (5)Human Genetics Center, The University of Texas School of Public Health at Houston, Houston, TX, (6)Psychiatry and Behavioral Sciences, University of Texas Medical School, Houston, TX

Poster Sessions

105 - Animal Models of Autism

9:00 - 13:00 - Banquet Hall

10:00 1 105.001 Transgenerational Actions of Endocrine Disrupting Compounds On Brain and Behavior: Implications for Autism. E. Rissman¹, University of Virginia School of Medicine, Charlottesville, VA

11:00 2 105.002 Environmental Impacts On the Brain and Behavior. H. Patisaul¹, North Carolina State University, Raleigh, NC

12:00 3 105.003 A Nonhuman Primate Model of Maternal Immune Activation. M. D. Bauman¹, Psychiatry and Behavioral Sciences, UC Davis, Sacramento, CA

10:00 4 105.004 Identification of Maternal Antibody Targets in Autism: Autism-Specific Maternal Autoantibodies Are Directed Against Critical Proteins in the Developing Brain. J. Van de Water¹, The M.I.N.D. Institute, University of California, Davis, Sacramento, CA

11:00 5 105.005 An Animal Model for the Fetal Valproate Syndrome. F. Bertelsen^{1,2}, A. Möller^{1,2}, A. M. Landau^{1,2}, P. Weikop³, A. Sabers⁴ and J. Scheel-Krüger¹, (1)Center of Functionally Integrative Neuroscience, Aarhus University, Aarhus, Denmark, (2)PET-centre, Aarhus University Hospital, Aarhus, Denmark, (3)Laboratory of Neuropsychiatry, Psychiatric Centre Copenhagen, Copenhagen, Denmark, (4)The Epilepsy Clinic, Department of Neurology, Rigshospitalet, Copenhagen, Denmark

- 12:00 6 105.006 Btbrt+Tf/J Mice Exhibit an Inflammatory Macrophage Cytokine Profile with Associations to Repetitive Grooming Behavior. C. E. Onore¹, M. Careaga², B. Babineau³, J. Schwartz⁴, J. Crawley⁵, R. F. Berman⁴ and P. Ashwood², (1)The M.I.N.D. Institute, University of California, Davis, Sacramento, CA, (2)Medical Microbiology and Immunology, The M.I.N.D. Institute, University of California, Davis, Sacramento, CA, (3)Department of Pediatrics, San Francisco School of Medicine, San Francisco, CA, (4)Department of Psychiatry and Behavioral Sciences, The M.I.N.D. Institute, University of California, Davis, Sacramento, CA, (5)Department of Psychiatry and Behavioral Sciences, M.I.N.D. Institute, University of California, Davis, Sacramento, CA
- 10:00 7 105.007 Characterization of Mood and Anxiety Phenotypes in a Mouse Model of Pten Haploinsufficiency. A. Clipperton-Allen and D. Page¹, Department of Neuroscience, The Scripps Research Institute, Jupiter, FL
- 11:00 8 105.008 Chronic Neuroinflammation and Altered Inflammatory Responses in a Mouse Model of Autism. L. Lucchina, N. Kazlauskas, M. Campolongo and A. M. Depino¹, IFIByNE, UBA-CONICET, Buenos Aires, Argentina
- 12:00 9 105.009 Disruption of the RNA-Binding Protein Celf6 in Mice Results in the Expression of Autistic-Like Behaviors. M. A. Rieger¹, S. E. Maloney, D. F. Wozniak, N. G. Mahieu, G. J. Patti and J. Dougherty, Washington University, St. Louis, MO
- 10:00 10 105.010 FOXP2 in the Nucleus Accumbens Regulates Reward Signaling and Social Behavior. C. Mombereau¹, V. Medvedeva¹, T. Ghosh¹, D. Herve¹, C. French², S. E. Fisher³, W. Enard⁴, S. Pääbo⁴, E. Ben David⁵, S. Shifman⁵, M. Mamiel¹ and M. Groszer¹, (1)UMR-839-INSERM-UPMC, Institut du Fer a Moulin, Paris, France, (2)Instituto Gulbenkian de Ciência, Champalimaud Neuroscience Programme, Oeiras, Portugal, (3)Max Planck Institute for Psycholinguistics, Nijmegen, Netherlands, (4)Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany, (5)The Hebrew University of Jerusalem, Jerusalem, Israel
- 11:00 11 105.011 Generation of a Transgenic Mouse Model to Inhibit the Function of Beta-Neurexin-1, a Gene Involved in Autism Spectrum Disorders. L. Garcia Rabaneda¹, E. Robles-Lanuz¹, M. L. Pecero¹, J. A. Paez-Gómez¹, A. Martínez-Mir² and F. G. Scholl¹, (1)Instituto de Biomedicina de Sevilla, Hospital Universitario Virgen del Rocío / CSIC / Universidad de Sevilla. Departamento de Fisiología Médica y Biofísica, Seville, Spain, (2)Instituto de Biomedicina de Sevilla, Hospital Universitario Virgen del Rocío / CSIC / Universidad de Sevilla, Seville, Spain
- 12:00 ♦12 105.012 Social and Vocal Behaviors of a Novel ASD Mouse Model. J. M. Bowers¹ and G. Konopka, Department of Neuroscience, UT Southwestern Medical Center, Dallas, TX
- 10:00 13 105.013 Gestational Exposure to Anticonvulsant Valproic Acid (VPA) Stimulates Forebrain Neurogenesis and Leads to Postnatal Brain Enlargement. X. Zhou¹ and E. DiCicco-Bloom, Neuroscience & Cell Biology, Robert Wood Johnson Medical School, Piscataway, NJ
- 11:00 14 105.014 Immune Deficiency Affects Juvenile Social Behavior in Mice and Is Altered by Splenocyte Transfer. K. M. Quinlan¹, K. H. Cox^{1,2} and E. Rissman³, (1)Neuroscience Graduate Program, University of Virginia, Charlottesville, VA, (2)Reproductive Endocrine Unit, Massachusetts General Hospital, Boston, MA, (3)University of Virginia School of Medicine, Charlottesville, VA
- 12:00 ♦15 105.015 Population-Based Prevalence of Autism Spectrum Disorders (ASD) in a Hispanic Population: Puerto Rico, 2011. J. F. Cordero¹, A. F. Alonso², H. F. Mattei³ and I. Torres⁴, (1)UPR School of Public Health, San Juan, PR, (2)Human Development, UPR School of Public Health, San Juan, PR, (3)Social Sciences - Demography, UPR School of Public Health, San Juan, PR, (4)Social Sciences - Social Determinants of Health, UPR School of Public Health, San Juan, PR
- 10:00 16 105.016 Implication of Engrailed 2, an Autism Associated Gene, in Hippocampal Neurogenesis, Apoptosis and Synaptic Activity. M. Genestine¹, M. T. Durens¹, S. Hu¹, M. Plummer², Z. Pang^{1,3}, J. H. Millonig^{1,4} and E. DiCicco-Bloom⁵, (1)Neuroscience and Cell Biology, Robert Wood Johnson Medical School, Piscataway, NJ, (2)Cell Biology and Neuroscience, Rutgers University, Piscataway, NJ, (3)Neuroscience and Cell Biology, Child Health Institute of New Jersey, New Brunswick, NJ, (4)CABM, Piscataway, NJ, (5)Neuroscience & Cell Biology, Robert Wood Johnson Medical School, Piscataway, NJ
- 11:00 17 105.017 Incidence of Impaired Social Behavior As Reported by Owners and Breeders of Miniature and Standard Poodles. R. M. Zamzow¹, K. L. Jones², E. C. Reznicek³, L. Li⁴ and D. Q. Beversdorf⁵, (1)Interdisciplinary Neuroscience Program, University of Missouri-Columbia, Columbia, MO, (2)Interdisciplinary Neuroscience Program, University of Missouri, Columbia, MO, (3)University of Missouri, Columbia, MO, (4)Animal Science, University of California-Davis, Davis, CA, (5)Radiology, Neurology, & Psychological Sciences, University of Missouri, Columbia, MO
- 12:00 18 105.018 Letting a Typical Mouse Judge Whether Mouse Social Interactions Are Atypical. C. R. Shah¹ and J. Veenstra-VanderWeele², (1)Vanderbilt University, Nashville, TN, (2)Monroe Carell Children's Hospital at Vanderbilt University, Nashville, TN
- 10:00 19 105.019 Loss of Dvl1 and 3 Induces Early Brain Overgrowth Via Transcriptional Deregulation of Beta-Catenin, Brn2 and Tbr2. H. Belinson¹, J. Nakatani¹, R. Y. Birnbaum², N. Ahituv², R. J. McEvilly³, M. G. Rosenfeld³ and A. Wynshaw-Boris¹, (1)Department of Pediatrics, Institute for Human Genetics, UCSF, San Francisco, CA, (2)Department of Bioengineering and Therapeutic Sciences, Institute for Human Genetics, UCSF, San Francisco, CA, (3)San Diego School of Medicine, UCSD, San Diego, CA
- 11:00 20 105.020 Modulation of RhoGTPases by the Bacterial Protein CNF1 Improves the Neurobehavioural Phenotype in a Mouse Model of Rett Syndrome. B. De Filippis¹, A. Fabbri, R. Canese, L. Ricceri, F. Malchiodi-Albedi, C. Fiorentini and G. Laviola, Istituto Superiore di Sanità, Rome, Italy
- 12:00 21 105.021 Mouse Models of Autism Phenotypes As Preclinical Screening Platforms for Novel Oxytocinergic Compounds. B. L. Teng^{1,2}, R. J. Nonneman^{1,3}, V. D. Nikolova^{1,4}, K. L. Agster^{1,4}, T. T. Davis^{1,2}, N. V. Riddick^{1,4}, L. K. Baker¹, C. A. Pedersen^{1,4}, M. B. Jarstfer^{1,2} and S. S. Moy^{1,4}, (1)Carolina Institute for Developmental Disabilities, University of North Carolina School of Medicine, Chapel Hill, NC, (2)UNC Eshelman School of Pharmacy, University of North Carolina, Chapel Hill, NC, (3)Department of Genetics, University of North Carolina School of Medicine, Chapel Hill, NC, (4)Department of Psychiatry, University of North Carolina School of Medicine, Chapel Hill, NC
- 10:00 22 105.022 Prenatal Exposure to Group B Streptococcus, Phthalates, and Flame Retardants: A New Animal Model for ASD? S. Degroote¹, J. Bergeron, M. E. Brochu, G. Sébire and L. Takser, Département de Pédiatrie, Faculté de Médecine et des Sciences de la Santé, Université de Sherbrooke, Sherbrooke, QC, Canada
- 11:00 23 105.023 Prioritizing Mouse Models for Autism Spectrum Disorder Using A Disease-Specific Phenotype Signature. I. Menashe¹, A. Kumar and S. B. Basu, MindSpec Inc., McLean, VA
- 12:00 24 105.024 Quantitative Assessment of Social Motivation in Mouse Models Relevant to Autism. L. Martin¹, C. Wood¹, E. Beilstein², H. Sample² and M. Gregg², (1)Graduate Psychology, Azusa Pacific University, Azusa, CA, (2)Psychology, Azusa Pacific University, Azusa, CA
- 10:00 25 105.025 Reduced Social Interaction, Behavioural Flexibility and BDNF Signalling in the BTBR T+TF/J Strain, a Mouse Model of Autism. M. L. Scattoni¹, A. Martire², A. Ferrante², G. Cartocci¹ and L. Ricceri¹, (1)Cell Biology and Neurosciences, Istituto Superiore di Sanità, Rome, Italy, (2)Therapeutic Research and Medicine Evaluation, Istituto Superiore di Sanità, Rome, Italy

- 11:00 26 105.026 Social Behavior in Fmr1 Hemizygotic and SAPAP3 Knockout Mice. V. Roman¹, R. Kedves¹, G. Szabó², F. Erdélyi², Z. Máté² and I. Gyertyán¹, (1)Behavioral Pharmacology, Gedeon Richter Plc., Budapest, Hungary, (2)Medical Gene Technological Unit, Institute of Experimental Medicine, Budapest, Hungary
- 12:00 27 105.027 Social Communication Deficits in Synapsin II Knockout Mice. C. Michetti¹, M. Morini², B. Greco², F. Benfenati² and M. L. Scattoni¹, (1)Cell Biology and Neurosciences, Istituto Superiore di Sanità, Rome, Italy, (2)Department of Neuroscience and Brain Technologies, Istituto Italiano di Tecnologia, Genova, Italy
- 10:00 28 105.028 Towards Molecular Therapy for Angelman Syndrome. B. J. Bailus¹, D. J. Segal and B. Pyles, Genome Center, University of California Davis, Davis, CA
- 11:00 29 105.029 Using Drosophila to Discover the Biological Significance of Rare Variants Linked to ASDs. S. Mehta¹, K. Pappu², P. K. Pate² and L. Zipursky², (1)Semel Institute / UCLA, Los Angeles, CA, (2)Biological Chemistry, HHMI / UCLA, Los Angeles, CA
- 11:00 37 106.037 Characteristics of Autism Spectrum Disorder Surveillance Cases without a Community Diagnosis: Missouri Autism and Developmental Disabilities Monitoring Network, 2006-2008. R. Fitzgerald¹, E. Molloy² and J. N. Constantino³, (1)Washington University School of Medicine, St. Louis, MO, (2)Washington University in St. Louis, Harrison, OH, (3)Washington University School of Medicine, Saint Louis, MO
- 12:00 38 106.038 Verbal and Pragmatic Performance in Children with EARLY Symptoms of Autism. A. Jokel¹, E. Armstrong², M. Aldridge³, J. Lougeay³, R. Stillman³, L. Gabis⁴ and T. T. Bower⁵, (1)Weinberg Child Development Department, Tel-Hashomer, Safra Children's Hospital, Ramat Gan, Israel, (2)Communication Sciences and Disorders, Texas Woman's University, Denton, TX, (3)Communication Disorders, UTD, Dallas, TX, (4)Tel Aviv University, Rehovot, Israel, (5)Brain and Behavioural Sciences, UTD, Dallas, TX
- 10:00 39 106.039 Using Questionnaires to Predict Serum Levels of Polybrominated Diphenyl Ether (PBDE) and Polyfluoroalkyl Compounds. X. Wu¹, D. Bennett¹, D. J. Tancredi², R. J. Schmidt^{3,4} and I. Hertz-Picciotto⁵, (1)Public Health Sciences, UC Davis, Davis, CA, (2)UC Davis School of Medicine, Sacramento, CA, (3)Public Health Sciences, UC Davis, Davis, CA, (4)UC Davis M.I.N.D. Institute, Sacramento, CA, (5)UC Davis M.I.N.D. Institute, Sacramento, CA

Poster Sessions
106 - Epidemiology

9:00 - 13:00 - Banquet Hall

- 10:00 ▶ 30 106.030 Early Signs of Autism Spectrum Disorder (ASD) in China. X. Zhang¹, Tianjin Medical University, Tianjin Medical University, Tianjin, China
- 11:00 ♦ 31 106.031 Implementation of A European Protocol for Autism Prevalence. A. M. Boilson¹, A. Staines¹, A. Ramirez² and M. R. Sweeney³, (1)School of Nursing and Human Sciences, Dublin City University, Dublin, Ireland, (2)The Hope Foundation, Scarriff, Ireland, (3)School of Nursing & Human Sciences, Dublin City University, Dublin, Ireland
- 12:00 32 106.032 Inter-Pregnancy Intervals and Risk of Autism in a Population-Based Study. L. Allerton, M. J. Maenner and M. Durkin¹, Waisman Center, University of Wisconsin-Madison, Madison, WI
- 10:00 33 106.033 Analysis of Two Polymorphisms On the Serotonin Transporter Gene and Their Interaction with Environmental Stressors During Pregnancy. P. Hecht¹, M. Tilley², K. L. Jones³ and D. Q. Beversdorf⁴, (1)University of Missouri, Columbia, MO, (2)Central Methodist University, Fayette, MO, (3)Interdisciplinary Neuroscience Program, University of Missouri, Columbia, MO, (4)Radiology, Neurology, & Psychological Sciences, University of Missouri, Columbia, MO
- 11:00 ▶ 34 106.034 Prevalence and Demographic Characteristics of Children with ASD in A Venezuelan Population. J. A. Chacin¹, E. Medrano², Z. Gonzalez³, V. Toledo³, E. Solis⁴, A. Costagliola⁵ and C. Montiel-Nava⁶, (1)Human Genetic, La Universidad del Zulia, Maracaibo, Venezuela, (2)Pediatric Neurology, Hospital de Especialidades Pediátricas, Maracaibo, Venezuela, (3)Human Genetic, Hospital de Especialidades Pediátricas, Maracaibo, Venezuela, (4)Human Genetics, La Universidad del Zulia, Maracaibo, Venezuela, (5)Epidemiology, La Universidad del Zulia, Maracaibo, Venezuela, (6)La Universidad del Zulia, Maracaibo, Venezuela
- 12:00 35 106.035 Maternal Cholesterol and Autism. J. B. Rouillet¹, A. Tsai¹, E. Tierney², H. Gray¹, H. Austin³, B. Wilmot¹ and R. D. Steiner¹, (1)Oregon Health & Science University, Portland, OR, (2)Kennedy Krieger Institute, Baltimore, MD, (3)University of Colorado Denver, Aurora, CO
- 10:00 36 106.036 Late Prematurity and Birth History in Children with Autism. A. Darcy Mahoney¹, B. Minter², M. Higgins³ and K. Burch⁴, (1)Nursing, Emory University Nell Hodgson Woodruff School of Nursing, Atlanta, GA, (2)Marcus Autism Center- Children's Healthcare of Atlanta, Atlanta, GA, (3)Emory University Nell Hodgson Woodruff School of Nursing, Atlanta, GA, (4)Emory University, Atlanta, GA
- 11:00 40 106.040 The Early Life Exposures Assessment Tool (ELEAT) for Autism Spectrum Disorders. C. Walker¹, D. J. Tancredi², D. Bennett³, A. Halladay⁴, R. Butler⁵ and R. J. Schmidt^{6,7}, (1)University of California at Davis, Sacramento, CA, (2)UC Davis School of Medicine, Sacramento, CA, (3)Public Health Sciences, UC Davis, Davis, CA, (4)Autism Speaks, New York, NY, (5)Autism Speaks, Los Angeles, CA, (6)UC Davis M.I.N.D. Institute, Sacramento, CA, (7)Public Health Sciences, University of California, Davis, CA
- 12:00 ▶ 41 106.041 Differences in Diagnosis and ASD Severity Between Latino and White Children. A. B. Ratto¹, L. Turner-Brown² and J. S. Reznick³, (1)University of North Carolina-Chapel Hill, Chapel Hill, NC, (2)University of North Carolina at Chapel Hill, Carrboro, NC, (3)University of North Carolina - Chapel Hill, Chapel Hill, NC
- 10:00 42 106.042 Effects of Autism Spectrum Disorder on Parental Employment: Evidence From the National Health Interview Survey. B. P. McCall¹ and E. Starr², (1)Higher Education, University of Michigan, Ann Arbor, MI, (2)Faculty of Education, University of Windsor, Windsor, ON, Canada
- 11:00 43 106.043 Findings from an Autism Surveillance Program in Three Regions of Canada. H. Ouellette-Kuntz¹, H. Coe¹, M. Breitenbach², P. Hennessey³ and P. Jackman³, (1)Community Health and Epidemiology, Queen's University, Kingston, ON, Canada, (2)Department of Education and Early Childhood Development, Charlottetown, PE, Canada, (3)Department of Education, St. John's, NF, Canada
- 12:00 ▶ 44 106.044 Sleep Patterns and Quality Among Children with Autism and Their Caregivers in Oman: A Case Control Study. O. Al-Farsi¹, Y. M. Al-Farsi², M. I. Waly³, M. Al-Sharbaty⁴, M. Al-Shafae², A. Ouhtit², M. M. Al-Khaduri² and S. al-Adwai², (1)Ministry of Health, Muscat, Oman, (2)Sultan Qaboos University, Muscat, Oman, (3)Sultan Qaboos University, Muscat, Oman, (4)Sultan Qaboos University, Muscat-Al-Khod, Oman
- 10:00 45 106.045 No Differences in Early Immunization Rates Among Children with Typical Development and Autism Spectrum Disorders. K. Angkustsiri^{1,2}, D. D. Li³ and R. Hansen^{2,4}, (1)UC Davis M.I.N.D. Institute, Sacramento, CA, (2)UC Davis Medical Center, Sacramento, CA, (3)M.I.N.D. Institute and Department of Psychiatry and Behavioral Sciences, University of California Davis Medical Center, Sacramento, CA, (4)The M.I.N.D. Institute, University of California, Davis, Sacramento, CA

- 11:00 46 106.046 Environment, the Perinatal Epigenome, and Risk for Autism and Related Disorders. J. I. Feinberg¹, M. A. Taub², S. C. Brown³, R. Irizarry⁴, K. D. Hansen⁵, L. A. A. Croen⁶, I. Hertz-Picciotto⁷, C. J. Newschaffer⁸, A. P. Feinberg⁹ and M. D. Fallin¹⁰, (1)Medicine, Johns Hopkins University, Baltimore, MD, (2)Biostatistics, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (3)Epidemiology, Bloomberg School of Public Health, Baltimore, MD, (4)Johns Hopkins University, Baltimore, MD, (5)Institute of Genetic Medicine, Johns Hopkins University, Baltimore, MD, (6)Kaiser Permanente Division of Research, Oakland, CA, (7)University of California at Davis, Davis, CA, (8)Drexel University School of Public Health, Philadelphia, PA, (9)Center for Epigenetics, Johns Hopkins University, Baltimore, MD, (10)Johns Hopkins School of Public Health, Baltimore, MD
- 12:00 47 106.047 Co-Existing Conditions in Children with ASD: Evidence From Two Large UK Databases. B. Koshy^{1,2}, M. Maskey³, F. A. Warnell⁴, M. A. Johnson⁴, H. McConachie⁴, A. S. Le-Couteur⁴ and J. Parr⁵, (1)Institute of Neuroscience, Newcastle University, Newcastle upon Tyne, United Kingdom, (2)Developmental Paediatrics, Christian Medical College, Vellore, India, (3)Institute of Neuroscience, Newcastle University, Newcastle upon Tyne, United Kingdom, (4)Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom, (5)Institute of Neuroscience, Newcastle University, Newcastle, United Kingdom
- 10:00 48 106.048 Can We Confirm an Association Between Shorter Interpregnancy Intervals and Autism? H. Coo¹, H. Ouellette-Kuntz², Y. M. Lam², M. Brownell³, M. Flavin¹ and L. Roos³, (1)Pediatrics, Queen's University, Kingston, ON, Canada, (2)Community Health and Epidemiology, Queen's University, Kingston, ON, Canada, (3)Community Health Sciences, University of Manitoba, Winnipeg, MB, Canada
- 11:00 ▶ 49 106.049 Socioeconomic Disparities in ASD Screening Outcomes Using the M-CHAT(-R). M. Khowaja¹, A. P. Hazzard² and D. L. Robins³, (1)Georgia State University, Atlanta, GA, (2)Emory University School of Medicine, Atlanta, GA, (3)Department of Psychology, Georgia State University, Atlanta, GA
- 12:00 50 106.050 Psychiatric Disorders in Parents and Siblings of Individuals Diagnosed with Autism Spectrum Disorders in a Danish Historic Birth Cohort: A Register-Based Follow-Up Study. M. W. Abdallah¹, E. L. Mortensen², J. Grove³, D. M. Hougaard⁴, B. Nørgaard-Pedersen⁴, E. C. Bonfeld-Jørgensen⁵ and T. M. Michel¹, (1)Department of Psychiatry and Psychotherapy, Rostock University Hospital, Faculty of Medicine, University of Rostock, Rostock, Germany, (2)Unit of Medical Psychology, Institute of Public Health and Center for Healthy Aging, University of Copenhagen, Copenhagen, Denmark, (3)Department of Biomedicine and Bioinformatics Research Centre (BiRC), HEALTH, Aarhus University, Aarhus, Denmark, (4)Department of Clinical Biochemistry and Immunology, Statens Serum Institute, Copenhagen, Denmark, (5)Department of Environmental and Occupational Medicine, HEALTH, Aarhus University, Aarhus, Denmark
- 10:00 51 106.051 Heavy Metals and Porphyrin Levels in Autism Spectrum Disorders. M. Macedoni-Luksic¹, D. Gosar¹, J. Orazem¹, J. Kodric¹, P. Lesnik Musek¹, A. France Stiglic², M. Zupancic¹, A. Sese Briski², D. Neubauer¹ and J. Osredkar², (1)Univ. Paediatric Hospital, Ljubljana, Slovenia, (2)Clinical Institute of Clinical Chemistry and Biochemistry, Ljubljana, Slovenia
- 11:00 ▶ 52 106.052 Training Program in Autism to Primary Care Professionals in São Paulo, Brazil - PILOT Study. D. Bordini¹, C. de Paula², R. Lowenthal³, G. Araujo Filho⁴, A. A. Gadelha⁵ and J. J. Mari⁵, (1)Department of Psychiatry, Federal University of São Paulo, São Paulo, Brazil, (2)Mackenzie Presbyterian University, São Paulo, Brazil, (3)Department of Psychiatry, Federal University of São Paulo, São Paulo, Brazil, (4)Department of Psychiatry, Federal University of São Paulo, São Paulo, Brazil, (5)Department of Psychiatry, Federal University of São Paulo, São Paulo, Brazil
- 12:00 53 106.053 Population Attributable Fractions for Three Perinatal Risk Factors for Autism Spectrum Disorders (ASDs), 2002 and 2008 Autism and Developmental Disabilities Monitoring (ADDM) Network. L. A. Schieve¹, L. Tian¹, J. Baio², K. Rankin³, D. Rosenberg³, C. E. Rice⁴, L. D. D. Wiggins⁵, M. J. Maenner⁶, M. Yeargin-Allsopp⁷, M. Durkin⁸, K. Van Naarden-Braun⁵, D. E. Schendel⁹, K. Phillips¹⁰, L. B. King¹¹, R. S. Kirby¹², M. Wingate¹³ and O. Devine³, (1)National Center on Birth Defects and Developmental Disabilities, Centers for Disease Control and Prevention, Atlanta, GA, (2)Centers for Disease Control and Prevention, Newnan, GA, (3)School of Public Health, University of Illinois at Chicago, Chicago, IL, (4)National Center on Birth Defects and Developmental Disabilities, Atlanta, GA, (5)Centers for Disease Control and Prevention, Atlanta, GA, (6)Waisman Center, University of Wisconsin-Madison, Madison, WI, (7)CDC, Atlanta, GA, (8)University of Wisconsin-Madison, Madison, WI, (9)National Center on Birth Defects and Developmental Disabilities, CDC, Atlanta, GA, (10)Center for Disease Control, Atlanta, GA, (11)Medical University of South Carolina, Charleston, SC, (12)University of South Florida, Tampa, FL, (13)University of Alabama, Birmingham, Birmingham, AL
- 10:00 54 106.054 Medical Conditions and Healthcare Utilization Associated with ASD in Adulthood. O. Zerbo¹, L. A. Croen and M. L. Massolo, Kaiser Permanente Division of Research, Oakland, CA
- 11:00 55 106.055 Epidemiology of Neglect and Maltreatment in Children with Autism Spectrum Disorders. L. B. King¹, C. A. Cheely, J. Charles, W. Jenner, J. S. Nicholas and L. A. Carpenter, Medical University of South Carolina, Charleston, SC
- 12:00 56 106.056 Obstetric Risk Factors and Autism Spectrum Disorders in Finland. P. Polo-Kantola^{1,2}, K. M. Lampi³, S. Hinkka-Yli-Salomäki³, M. Gissler^{4,5}, A. S. Brown^{6,7} and A. Sourander^{8,9}, (1)Department of Obstetrics and Gynecology, Turku University Hospital, Turku, Finland, (2)Dept. of Obstetrics and Gynecology, University of Turku, Turku, Finland, (3)Dept. of Child Psychiatry, University of Turku, Turku, Finland, (4)National Institute of Health and Welfare, Helsinki, Finland, (5)Nordic School of Public Health, Gothenburg, Sweden, (6)Department of Psychiatry, College of Physicians and Surgeons of Columbia University, New York State Psychiatric Institute, New York, NY, (7)Department of Epidemiology, Mailman School of Public Health, Columbia University, New York, NY, (8)Department of Child Psychiatry, University of Turku, Turku, Finland, (9)Dept. of Child Psychiatry, Turku University Hospital, Turku, Finland
- 10:00 57 106.057 The Association Between Gestational Exposure to Nonsteroidal Anti-Inflammatory Drugs and Autism. T. Tseng¹, M. L. Adams², W. D. Rich³, D. Tillman³ and I. Hertz-Picciotto⁴, (1)Public Health, Campbell University College of Pharmacy and Health Sciences, Buies Creek, NC, (2)Pharmaceutical Sciences, Campbell University College Pharmacy and Health Sciences, Buies Creek, NC, (3)Public Health, Campbell University College Pharmacy and Health Sciences, Buies Creek, NC, (4)University of California at Davis, Davis, CA
- 11:00 58 106.058 Elevated Maternal C-Reactive Protein and Autism in a National Birth Cohort. A. S. Brown¹, A. Sourander², S. Hinkka-Yli-Salomäki³, I. W. McKeague⁴, J. Sundvall⁵ and H. M. Surcel⁶, (1)NYSP, New York, NY, (2)Dept. of Child Psychiatry, Turku University Hospital, Turku, Finland, (3)Dept. of Child Psychiatry, University of Turku, Turku, Finland, (4)Epidemiology, Columbia University Mailman School of Public Health, New York, NY, (5)Department of Chronic Disease Prevention, National Institute for Health and Welfare, Helsinki, Finland, (6)National Institute for Health and Welfare, Helsinki, Finland
- 12:00 59 106.059 Blood Serotonin Levels in Autism: A Systematic Review and Meta-Analysis. S. Gabriele¹, R. Sacco¹ and A. M. Persico^{1,2}, (1)Child and Adolescent Neuropsychiatry Unit, Laboratory of Molecular Psychiatry and Neurogenetics, University Campus Bio-Medico, Rome, Italy, (2)Fondazione Santa Lucia, IRCCS, Rome, Italy

- 10:00 ▶ 60 106.060 Prevalence of Autism Spectrum Disorders (ASD) Among Young Children, by Demographic Characteristics. G. C. Windham¹, K. S. Smith², M. Anderson², N. J. Rosen^{3,4}, L. A. Croen⁵ and C. E. Rice⁶, (1)California Department of Public Health, Richmond, CA, (2)Impact Assessment, Inc., Richmond, CA, (3)California Dept of Public Health, Richmond, CA, (4)UC Berkeley SPH (current), Berkeley, CA, (5)Kaiser Permanente Division of Research, Oakland, CA, (6)National Center on Birth Defects and Developmental Disabilities, Atlanta, GA
- 11:00 61 106.061 Analysis of the Ages and Stages Questionnaire 3rd Edition (ASQ-3) Compared to the Modified Checklist for Autism in Toddlers - Revised (M-CHAT-R): An Update. L. D. Haisley¹, S. Hardy², C. Manning¹, M. Barton¹ and D. A. Fein¹, (1)Clinical Psychology, University of Connecticut, Storrs, CT, (2)School Psychology, University of Rhode Island, Kingston, RI
- 12:00 62 106.062 The Familial Factors and Child's Symptomatology Affecting the Age of Diagnosis of Autism Spectrum Disorder. R. A. Mishaal¹, E. Ben Itzhak² and D. A. Zachor³, (1)Pediatrics, The Autism Center, Assaf Harofeh Medical Center, Ramat Gan, Israel, (2)Ariel University Center / Assaf Harofeh Medical Center, Givat Shmuel, Israel, (3)Tel Aviv University / Assaf Harofeh Medical Center, Zerifin, Israel
- 10:00 ▶ 63 106.063 Needs and Opportunities for ASD Awareness, Legislation, Intervention, Training and Research in Argentina. A. Rattazzi¹, M. L. Massolo², K. A. Gutson¹, V. M. Ensenat^{1,3}, C. Plebst¹, S. H. Cukier¹, M. Massolo¹, D. Melfi¹, N. Martinez¹, V. L. Martorello¹, P. Landolfi¹ and L. A. Croen², (1)PANACEA, Buenos Aires, Argentina, (2)Kaiser Permanente Division of Research, Oakland, CA, (3)Pediatrics, British Hospital of Buenos Aires, Buenos Aires, Argentina
- 11:00 ▶ 64 106.064 Early Symptoms of Autistic Disorders in Korean Children: Retrospective Findings for 1- and 2-Year-Old Children. Y. Lee¹, E. Lee¹ and H. Seung², (1)Department of Speech Pathology and Audiology, Hallym University, Chuncheon, South Korea, (2)California State University, Fullerton, CA
- 12:00 65 106.065 Maternal Exposure to Childhood Abuse Is Associated with Elevated Risk of Autism. A. L. Roberts¹, K. Lyall^{1,2}, J. Rich-Edwards³, A. Ascherio¹ and M. G. Weisskopf¹, (1)Harvard School of Public Health, Boston, MA, (2)Public Health Sciences, University of California, Davis, Davis, CA, (3)Connors Center for Women's Health and Gender Biology, Brigham and Women's Hospital, Boston, MA
- 10:00 ▶ 66 106.066 Age of Autism Diagnosis in a Clinical Setting: Differences by Rural Vs. Urban Counties. C. Hall¹, M. Lambha² and J. Hamel², (1)The Marcus Autism Center, Atlanta, GA, (2)Pediatric Neurodevelopmental Clinic, Marcus Autism Center, Atlanta, GA
- 11:00 67 106.067 Children with Past but Not Current Diagnosis of Autism Spectrum Disorder. S. J. Blumberg¹, R. M. Avila², L. J. Colpe³, B. Pringle³ and M. D. Kogan⁴, (1)National Center for Health Statistics, Centers for Disease Control and Prevention, Hyattsville, MD, (2)School of Public Health, University of Washington, Seattle, WA, (3)National Institute of Mental Health, Bethesda, MD, (4)Maternal and Child Health Bureau, Health Resources and Services Administration, Rockville, MD
- 12:00 ▶ 68 106.068 Assessing Autism in Mexico Through the Autism Behavior Checklist (ABC). L. Albores-Gallo¹, C. List Hilton², K. Living Varela Orozco³, O. Roldán-Ceballos^{4,5} and A. P. Maurer-Martinez⁶, (1)Research Division, Hospital Psiquiátrico Infantil "Dr. Juan N. Navarro" Secretaría de Salud, México D.F., Mexico, (2)Washington University School of Medicine, St. Louis, Missouri, USA., St. Louis, MO, (3)Hospital Psiquiátrico Infantil "Dr. Juan N. Navarro" Secretaría de Salud., Mexico, Mexico, (4)Asociación Mexicana de Niños con TDA y trastornos asociados AC., Mexico, Mexico, (5)Psychiatry, Hospital General "Dr. Fernando Quiroz Gutiérrez", México D.F., Mexico, (6)Psychology school, Iberoamericana University School of Psychology, Mexico, Mexico
- 10:00 69 106.069 The Influence of Self-Esteem in Predicting Changes in Autism Spectrum Behaviors for Adolescents with ASD: The UCLA PEERS School-Based Curriculum. R. Bagrodia¹, D. Janulaitis¹, L. C. Tucci², Y. Bolourian³ and E. Laugeson⁴, (1)The Help Group - UCLA Autism Research Alliance, Sherman Oaks, CA, (2)The Help Group / UCLA Autism Research Alliance, Redondo Beach, CA, CA, (3)UCLA PEERS Clinic, Los Angeles, CA, (4)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA
- 11:00 ❖70 106.070 Effect of Social and Environmental Factors on the Prevalence of Autism in Qatar. F. Alshaban¹, Shafallah Medical Genetics Center, Doha, Qatar
- 12:00 71 106.071 The "Prima-Pietra" Project: A Web-Based Platform for Early Autism Risk Assessment. L. Ruta^{1,2}, R. Siracusano³, G. Tortorella³, M. Boncoddò³, C. Colombi⁴, G. Crifaci⁵, L. Billeci⁶, G. Tartarisco⁷, M. Ferro⁸, A. Narzisi⁹, F. Muratori⁹ and G. Pioggia¹⁰, (1)Institute of Clinical Physiology, National Research Council, Pisa, Italy, (2)Autism Research Centre, University of Cambridge, Cambridge, United Kingdom, (3)Universita' di Messina, Messina, Italy, (4)National Research Council of Italy, Pisa, Italy, (5)Institute of Clinical Physiology, National Research Council, Pisa, Italy, (6)Institute of Clinical Physiology, National Council of Research, Pisa, Italy, (7)National Council of Research (CNR), Pisa, Italy, (8)"Antonio Zampolli" Institute for Computational Linguistics, Pisa, Italy, (9)University of Pisa - Stella Maris Scientific Institute, Pisa, Italy, (10)Institute of Clinical Physiology, National Research Council (CNR), Pisa, Italy
- 10:00 ▶ 72 106.072 Preliminary Data for the CAST Test in Three Spanish Population-Based Birth Cohorts At 5 Years of Age, in the INMA (Infancia y Medio Ambiente [Environment and Childhood]) Project. A. Aranbarri^{1,2}, J. Forn³, A. Andiana^{1,2}, J. Julvez³, C. L. Rodriguez-Bernal⁴, M. Rebagliato⁵ and I. Hertz-Picciotto^{5,6}, (1)Psychobiology Area, Department of Basic Psychological Processes and Their Development, University of the Basque Country (UPV / EHU), San Sebastián, Spain, (2)BioDonostia Health Research Institute, San Sebastián, Spain, (3)Centre for Research in Environmental Epidemiology (CREAL), Barcelona, Spain, (4)Environment and Health Area, Center for Public Health Research, Valencia, Spain, (5)University of California at Davis, Davis, CA, (6)UC Davis M.I.N.D. Institute, Sacramento, CA
- 11:00 73 106.073 Prevalence of the Autism Phenotype in Children Adopted After Early Neglect and Maltreatment. J. Green¹, C. Kay and K. Leadbitter, University of Manchester, Manchester, United Kingdom
- 12:00 74 106.074 The Mother's Very Early Experience of Taking Care of a Child Later Diagnosed with Autism: A Follow-up Study in the Danish National Birth Cohort. S. Lemcke¹, E. Parner², M. Bjerrum², P. H. Thomsen¹ and M. B. Lauritsen³, (1)Regional Centre for Child and Adolescent Psychiatry, Aarhus University Hospital, Risskov, Denmark, (2)Department of Public Health, University of Aarhus, Aarhus C, Denmark, (3)Aalborg Psychiatric Hospital, Research Unit of Child and Adolescent Psychiatry, Aarhus University Hospital, Aalborg, Denmark

Poster Sessions

107 - Screening and Diagnosis

9:00 - 13:00 - Banquet Hall

- 10:00 75 107.075 Factors Influencing How Parents Report Autism Symptoms On the ADI-R. R. M. Jones¹, D. M. Wexler¹, D. K. Anderson², S. Risi³, C. Corsello⁴ and C. Lord¹, (1)Center for Autism and the Developing Brain, Weill Cornell Medical College, White Plains, NY, (2)University of Michigan, Ann Arbor, MI, (3)Autism Collaborative Center, Eastern Michigan University, Ann Arbor, MI, (4)University of California, San Diego, La Jolla, CA

- 11:00 76 107.076 Predicting DSM-5 ASD Diagnosis Using the Autism Mental Status Exam in an Adult Sample. D. Grodberg¹, P. M. Weinger², D. B. Halpern³, A. Kolevzon¹ and J. D. Buxbaum³, (1)Seaver Autism Center for Research and Treatment, Mount Sinai School of Medicine, New York, NY, (2)Yeshiva University, New York, NY, (3)Psychiatry, Mount Sinai School of Medicine, New York, NY
- 12:00 77 107.077 Classification of Autistic Spectrum Disorders Using Blood-Based Expression Profiles. S. J. Glatt¹, SUNY Upstate Medical University, Syracuse, NY
- 10:00 78 107.078 Is Serum Brain Derived Neurotrophic Factor (BDNF) a Reliable Biological Marker for Autism? L. Hewitson¹, T. Mauldin, A. Potts and C. Schutte, The Johnson Center for Child Health and Development, Austin, TX
- 11:00 79 107.079 The Challenge of Making a Diagnosis: Understanding the Diagnostic Variation Among Autism Professionals. C. A. Cowan¹, L. V. Ibanez², E. Myers³ and W. L. Stone³, (1)Seattle Children's Hospital Autism Center, Seattle, WA, (2)University of Washington Autism Center, Seattle, WA, (3)University of Washington, Seattle, WA
- 12:00 80 107.080 Diagnosing Autism Spectrum Disorder: Who Will Get a DSM-5 Diagnosis? R. G. Kent¹, S. J. Carrington², A. S. Le Couteur³, J. Gould⁴, L. Wing⁵, J. P. W. Maljaars^{6,7}, I. Noens⁷, I. A. van Berckelaer-Onnes⁸ and S. R. Leekam⁸, (1)Wales Autism Research Centre, Cardiff University, Cardiff, United Kingdom, (2)Wales Autism Research Centre, Cardiff, United Kingdom, (3)Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom, (4)Lorna Wing Centre, National Autistic Society, Bromley, United Kingdom, (5)National Autistic Society, Bromley, United Kingdom, (6)Leiden University, Leiden, Netherlands, (7)Parenting and Special Education Research Unit, University of Leuven (KU Leuven), Leuven, Belgium, (8)Wales Autism Research Centre, School of Psychology, Cardiff University, Cardiff, United Kingdom
- 10:00 81 107.081 Symptomatic Presentation of Autism in Toddlers: What Can We See in 10 Minutes? T. P. Gabrielsen¹, M. E. Villalobos², M. Farley³, L. A. Speer⁴, C. N. Baker⁵, J. Viskochil⁶ and J. Miller⁷, (1)Children's Hospital of Philadelphia, Center for Autism Research, Philadelphia, PA, (2)Children's Hospital of Philadelphia, Philadelphia, PA, (3)University of Utah, Salt Lake City, UT, (4)Autism Center, Shaker Campus, Cleveland Clinic, Cleveland, OH, (5)Department of Psychology, Tulane University, New Orleans, LA, (6)Utah Autism Research Program, Salt Lake City, UT, (7)Center for Autism Research, Philadelphia, PA
- 11:00 82 107.082 Distinguishing Autism Spectrum Disorders From Other Developmental Delays Using Blood Rnaseq. S. Letovsky¹, M. E. Causey¹, M. Aryee², J. Skoletsky³, C. Proulx¹, F. R. Sharp³, I. N. Pessah⁴, R. Hansen⁵, J. Gregg⁶ and I. Hertz-Picciotto⁷, (1)SynapDx Corp, Southborough, MA, (2)Massachusetts General Hospital, Boston, MA, (3)Neurology, University of California Davis Medical Center; M.I.N.D. Institute, Sacramento, CA, (4)UC Davis M.I.N.D. Institute, Sacramento, CA, (5)The M.I.N.D. Institute, University of California, Davis, Sacramento, CA, (6)M.I.N.D. Institute, Sacramento, CA, (7)University of California at Davis, Davis, CA
- 12:00 83 107.083 "Level of Support" in DSM-5: Untangling the Relations Between Adaptive Behavior, Cognitive Skills, and Autism Severity Scores in Seeking to Assign a Diagnostic Severity Level. A. S. Weitlauf¹, A. Vehorn¹, K. Gotham¹, C. R. Newsom² and Z. Warren¹, (1)Vanderbilt University, Nashville, TN, (2)Pediatrics, Psychiatry, & Psychology, Vanderbilt University, Nashville, TN
- 10:00 84 107.084 Determining the Efficacy of the SACS in Identifying Preschoolers with ASDs: Development of the SACS-Preschool (SACS-Pr). J. Barbaro¹, E. Ulusoy and C. Dissanayake, Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia
- 11:00 85 107.085 Recent Advances in the Identification of Early Signs of Autism in First Year of Life Clinical Aspects Research. H. A. Alonim¹, The Mifne Center, Rosh Pinna, Israel; Bar Ilan University, Ramat Gan, Israel
- 12:00 86 107.086 Parental Perceptions On the Diagnostic Process for Autism and Interest in A Genetic Risk Assessment Test for Autism Spectrum Disorders: An International Survey. C. Amiet^{1,2}, V. Narcisa³, M. Discenza⁴, E. Vaccari⁴, B. Rosen-Sheidley⁵, K. Carr⁶ and E. Couchon⁷, (1)Department of Child and Adolescent Psychiatry, Groupe Hospitalier Pitié-Salpêtrière, APHP, Paris, France, (2)IntegraGen SA, Evry, France, (3)Acadia University, Glenside, PA, (4)Boston University School of Medicine, Boston, MA, (5)Brandeis University, Boston, MA, (6)University of Notre Dame, South Bend, IN, (7)IntegraGen Inc, Cambridge, MA
- 10:00 87 107.087 Use of the Development and Well-Being Assessment (DAWBA) to Identify Autism Spectrum Disorder in a Community Sample of Adolescents. F. S. McEwen¹, C. Ames², E. L. Woodhouse³, E. Colvert³, S. R. Curran⁴, A. Ronald⁵, D. G. Murphy⁶, R. Goodman⁷, F. Happé⁷ and P. F. Bolton¹, (1)SGDP & Child and Adolescent Psychiatry, Institute of Psychiatry, King's College London, London, United Kingdom, (2)King's College London, London, United Kingdom, (3)SGDP, Institute of Psychiatry, King's College London, London, United Kingdom, (4)Kings College London, London, United Kingdom, (5)Birkbeck College, London, United Kingdom, (6)Forensic and Neurodevelopmental Sciences Department, Institute of Psychiatry, King's College London, London, United Kingdom, (7)MRC Social, Genetic & Developmental Psychiatry, Institute of Psychiatry, King's College London, London, United Kingdom
- 11:00 88 107.088 The Suitability of Self-Report Measures for Adult Autism Spectrum Disorder Diagnoses. C. K. Holmes¹ and R. L. Young², (1)School of Psychology, Flinders University, Adelaide, Australia, (2)Flinders University of South Australia, Adelaide, Australia
- 12:00 89 107.089 Using the Quantitative Checklist for Autism in Toddlers (Q-CHAT) at 24 Months to Predict ASD Diagnosis at 36 Months. G. Pasco¹, K. Hudry², S. Chandler³, C. Allison³, S. Baron-Cohen³, M. Elsabbagh⁴, M. H. Johnson⁵ and T. Charman¹, (1)Centre for Research in Autism & Education, Institute of Education, London, United Kingdom, (2)Olga Tennison Autism Research Centre, School of Psychological Science, La Trobe University, Bundoora, Australia, (3)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (4)Department of Psychiatry, McGill University, Montreal, QC, Canada, (5)Centre for Brain & Cognitive Development, Birkbeck, University of London, London, United Kingdom
- 10:00 90 107.090 An Eye-Tracking Based Diagnostic Screener for Autism Spectrum Disorders in 18- to 42-Month-Old Children. M. Valente¹, M. Ly², A. Klin¹ and W. Jones¹, (1)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA, (2)Marcus Autism Center, Atlanta, Ga, GA
- 11:00 91 107.091 Late Diagnosis of Autism Spectrum Disorder – Missed or Over-Diagnosed?. M. Davidovitch¹ and D. Golan², (1)Maccabi Healthcare Services, Tel Aviv, Israel, (2)Maccabi Healthcare Services, Jerusalem, Israel
- 12:00 92 107.092 Comparison of ADOS to ADOS-2 Diagnostic Classifications within the Autism Treatment Network. A. Fedele¹, A. Abbacchi² and S. M. Kanne³, (1)Autism Treatment Network, Autism Speaks, Westmont, NJ, (2)Autism Genetic Resource Exchange, Autism Speaks, St. Louis, MO, (3)Thompson Center for Autism and Neurodevelopmental Disorders, University of Missouri, Columbia, MO
- 10:00 93 107.093 Early Social Cognitive Development and Behavioural Signs of Autism in Very Preterm Infants. C. L. Sanderson¹, L. Platten-Brown², D. H. Skuse³ and N. Marlow², (1)Behavioural and Brain Sciences Unit, UCL Institute of Child Health, London, United Kingdom, (2)Neonatology, UCL Institute for Women's Health, London, United Kingdom, (3)Behavioural and Brain Sciences Unit, Institute of Child Health, UCL, London, United Kingdom

- 11:00 ▶ 94 107.094 Child and Family Characteristics That Affect the Clinical Utility of the Modified Checklist for Autism in Toddlers As a Level II Screening Tool in Singapore. H. C. Koh¹, S. Lim², G. Chan², H. H. Lim¹, S. Choo¹ and I. Magiati², (1)Department of Child Development, KK Women's and Children's Hospital, Singapore, Singapore, (2)Department of Psychology, National University of Singapore, Singapore, Singapore
- 12:00 95 107.095 The Validation of the 3DI-Sva As a Diagnostic Tool for Autistic Spectrum Disorder. J. Wakefield¹, D. H. Skuse², K. Lawrence³ and W. Mandy⁴, (1)Behavioural and Brain Sciences Unit, UCL Institute of Child Health, London, United Kingdom, (2)Behavioural and Brain Sciences Unit, Institute of Child Health, UCL, London, United Kingdom, (3)Department of Psychology, Royal Holloway, Egham, United Kingdom, (4)Division of Psychology and Language Sciences, Faculty of Brain Sciences, UCL, London, United Kingdom
- 10:00 96 107.096 MCHAT-R Screener Predictive Validity in a High-Risk Infant Sibling Population. H. Noble¹, A. S. Weitlauf², W. A. Loring³, A. Nicholson³, J. A. Crittendon², C. R. Newsom⁴ and Z. Warren², (1)TRIAD, Vanderbilt Kennedy Center, Nashville, TN, (2)Vanderbilt Kennedy Center, Nashville, TN, (3)Vanderbilt University, Nashville, TN, (4)Pediatrics, Psychiatry, & Psychology, Vanderbilt University, Nashville, TN
- 11:00 97 107.097 Broadband and Autism-Specific Screening Using the Early Screening for Autism and Communication Disorders (ESAC): Moving From Paper to the Smart ESAC for Children 12 to 36 Months of Age. W. Guthrie¹, A. M. M. Wetherby¹, E. Petkova², J. J. Woods¹ and C. Lord³, (1)Florida State University Autism Institute, Tallahassee, FL, (2)NYU Child Study Center, New York, NY, (3)Center for Autism and the Developing Brain, Weill Cornell Medical College, White Plains, NY
- 12:00 98 107.098 Language Impairment in Younger Siblings of Children with ASD: Stability and Predictors. K. Sheperd^{1,2}, P. Rao³ and R. Landa^{1,4}, (1)Center for Autism and Related Disorders, Kennedy Krieger Institute, Baltimore, MD, (2)The Johns Hopkins University School of Medicine, Baltimore, MD, (3)Kennedy Krieger, Baltimore, MD, (4)Johns Hopkins University School of Medicine, Baltimore, MD
- 11:00 99 107.099 Developmental Surveillance Versus Screening for the Identification of Autism Spectrum Disorders in Infants and Toddlers. J. Barbaro¹, A. Mitchell and C. Dissanayake, Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia
- 11:00 ❖100 107.100 Comparative Profiles of Late Preterm and Full Term Male Toddlers with Autism. K. E. Caravella¹, T. Cermak² and C. Klaiman¹, (1)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA, (2)Marcus Autism Center, Atlanta, GA
- 12:00 101 107.101 The Diagnostic Odyssey: Parents' Experiences of the Diagnosis of Autism. J. S. Singh¹, Georgia Institute of Technology, Atlanta, GA
- 10:00 102 107.102 An Online Delphi Process to Identify ASD Diagnosis Guidelines for Best Practice Evaluation and Implementation. C. Koning¹, L. Zwaigenbaum², S. Reynolds³, V. Guillner⁴ and E. Kelly⁵, (1)Glenrose Rehabilitation Hospital, Edmonton, AB, Canada, (2)Glenrose Rehabilitation Hospital, University of Alberta, Edmonton, AB, Canada, (3)Psychology, Glenrose Rehabilitation Hospital, Edmonton, AB, Canada, (4)Pediatrics, Glenrose Rehabilitation Hospital, Edmonton, AB, Canada, (5)Communication Disorders, Glenrose Rehabilitation Hospital, Edmonton, AB, Canada
- 11:00 103 107.103 Changes On the Horizon: Comparing DSM-5 Autistic Spectrum Disorder with Social Communication Disorder. R. Varrall¹, D. H. Skuse², J. Wakefield³ and W. Mandy⁴, (1)Great Ormond Street Hospital, London, England, United Kingdom, (2)Behavioural and Brain Sciences Unit, Institute of Child Health, UCL, London, United Kingdom, (3)30 Guilford Street (4th Floor), Institute of Child Health at UCL, London, United Kingdom, (4)Division of Psychology and Language Sciences, Faculty of Brain Sciences, UCL, London, United Kingdom
- 12:00 ▶ 104 107.104 Diagnostic Validity of the ADOS and ADI-R in Children Aged <48 Months: A European Perspective. E. Zander^{1,2}, H. Sturm² and S. Bölte¹, (1)Department of Women's and Children's Health, Center of Neurodevelopmental Disorders (KIND), Karolinska Institutet, Stockholm, Sweden, (2)Child and Adolescent Psychiatry, Stockholm County Council, Stockholm, Sweden
- 10:00 105 107.105 Rating Scale Measures Are Correlated with Automated Video Tracking of Behaviors of Children On the Autism Spectrum. I. L. Cohen¹, T. R. Gomez¹, S. Y. Kim¹, B. Z. Karmel² and J. M. Gardner¹, (1)New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (2)Infant Development, NYS Institute for Basic Research in Developmental Disabilities, Staten Island, NY
- 11:00 ▶ 106 107.106 Early Assessment of Autism Spectrum Disorders: Correlation Between M-CHAT-R and ASD Diagnosis in a Portuguese Sample. C. C. Almeida¹, A. Rodrigues² and D. L. Robins³, (1)PIN - Progresso Infantil, Carcavelos, Portugal, (2)Faculdade Motricidade Humana, Lisboa, Portugal, (3)Department of Psychology, Georgia State University, Atlanta, GA
- 12:00 ▶ 107 107.107 The Japanese Version of the Diagnostic Interview for Social and Communication Disorders 11: A Preliminary Study of Japanese Version. Y. Uno^{1,2}, T. Uchiyama^{1,3}, T. Yoshikawa⁴, Y. Nakayama⁵, N. Ozaki², J. Gould⁶ and L. Wing⁶, (1)Yokohama Psycho-Developmental Clinic, Yokohama, Japan, (2)Psychiatry and Psychiatry for Parents and Children, Nagoya University Hospital, Nagoya, Japan, (3)Faculty of Human Development, Fukushima University, Fukushima, Japan, (4)Child Adolescent Psychiatry, Aichi Prefectural Colony Central Hospital, Kasugai, Japan, (5)Child Adolescent Psychiatry, Tokyo Metropolitan Children's Medical Center, Fucyu, Japan, (6)Lorna Wing Centre, National Autistic Society, Bromley, United Kingdom
- 10:00 108 107.108 Sensory Features in Early Infancy Differ in High and Low Risk Infants. B. Hand¹, R. L. Young², D. Robson², J. C. Heathcock¹ and A. E. Lane¹, (1)The Ohio State University, Columbus, OH, (2)Flinders University of South Australia, Adelaide, Australia
- 11:00 109 107.109 Using the Autism Quotient and Empathy Quotient to Aid Diagnosis in Adults: Performance in a 'Real World' Clinical Setting. N. Gillan¹, C. E. Wilson², L. O'Rourke¹, C. M. Murphy³, H. L. Hayward⁴, V. D'Almeida⁵, M. Gudbrandsen⁶, E. Daly⁷, C. Ecker⁷, D. Robertson⁸ and D. G. Murphy⁹, (1)King's College London, London, United Kingdom, (2)King's College, London, London, United Kingdom, (3)King's College London, Institute of Psychiatry, London, United Kingdom, (4)Institute of Psychiatry, London, United Kingdom, (5)Centre for Neuroimaging Sciences, King's College London, Institute of Psychiatry, London, United Kingdom, (6)Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, London, United Kingdom, (7)Department of Forensic and Neurodevelopmental Sciences, King's College London, Institute of Psychiatry, London, United Kingdom, (8)Department of Forensic and Neurodevelopmental Sciences, King's College London, Institute of Psychiatry, London, United Kingdom, (9)Forensic and Neurodevelopmental Sciences Department, Institute of Psychiatry, King's College London, London, United Kingdom

- 12:00 ▶ 110 107.110 Diagnosis of Autism Spectrum Disorders in a Global Clinical Drug Trial: Challenges and Solutions. J. E. Olson¹, F. K. Miller², S. R. Podolin³, K. A. Bertzos³ and C. A. Brady⁴, (1)JOlson Consulting, Wilmette, IL, (2)University of Michigan, Ann Arbor, MI, (3)PharmaNet-i3, Blue Bell, PA, (4)PharmaNet-i3, Cary, NC
- 10:00 111 107.111 The Utility of the BASC-2 Content Scales for Identifying Children and Adolescents with Autism Spectrum Disorders. L. E. Bradstreet¹, D. L. Robins and T. Z. King, Department of Psychology, Georgia State University, Atlanta, GA
- 11:00 112 107.112 Comparisons of DSM-IV and DSM-5 Criteria for Diagnostic Outcomes When Used in Community-Based TEACCH Centers. M. E. Van Bourgondien¹, T. Dawkins and A. T. Meyer, University of North Carolina, Chapel Hill, NC
- 12:00 113 107.113 Validation of the Autism Detection in Early Childhood (ADEC) As a Level 2 Screening Tool for Autistic Disorder. Y. H. Nah¹, R. L. Young², N. Brewer³ and G. Choimes¹, (1)Flinders University, Adelaide, Australia, (2)School of Psychology, Flinders University, Adelaide, Australia, (3)Flinders University of South Australia, Adelaide, SA, Australia
- 10:00 114 107.114 Clinical Use of the Infant-Toddler Social and Emotional Assessment in Autism Spectrum Disorder. E. Mottes¹, F. Apicella, E. Conti, A. Cosenza, S. Maestro, A. Narzisi, R. Tancredi and F. Muratori, University of Pisa – Stella Maris Scientific Institute, Pisa, Italy
- 11:00 115 107.115 Age at ASD Diagnosis in the UK Has Not Reduced Over Recent Years: Evidence From a Large ASD Research Database. F. Warnell¹, M. A. Johnson², P. Ramesh³, H. McConachie⁴ and J. Parr⁵, (1)Institute of Neuroscience, Newcastle University, Newcastle upon Tyne, United Kingdom, (2)Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom, (3)Newcastle University, Newcastle upon Tyne, United Kingdom, (4)Newcastle University, Newcastle Upon Tyne, United Kingdom, (5)Institute of Neuroscience, Newcastle University, Newcastle, United Kingdom
- 12:00 116 107.116 DSM-5 Criteria Applied to Toddlers Diagnosed with ASD by DSM-IV-TR. D. T. Jashar¹, L. A. Brennan², D. L. Robins³, M. Barton⁴ and D. A. Fein⁴, (1)Department of Psychology, University of Connecticut, Storrs, CT, (2)University of Connecticut, Auburn, MA, (3)Department of Psychology, Georgia State University, Atlanta, GA, (4)Clinical Psychology, University of Connecticut, Storrs, CT
- 10:00 117 107.117 Studying the Continuum of Autistic Traits with Peripheral Biomarkers: Preliminary Evidence for Vasopressin, Oxytocin, and BDNF. N. Brondino¹, E. Emanuele¹, B. Auyeung², L. Visai^{3,4}, N. Bloise³, S. Re¹, M. Rocchetti¹, M. Boso¹, F. Barale¹ and P. Politi¹, (1)Department of Public Health, Neuroscience, Experimental and Forensic Medicine-section of Psychiatry, University of Pavia, Pavia, Italy, (2)University of Cambridge, Cambridge, United Kingdom, (3)Dept. of Molecular Medicine, and Center for Tissue Engineering, University of Pavia, Pavia, Italy, (4)Laboratory of Nanotechnology, Salvatore Maugeri Foundation, IRCCS, Pavia, Italy
- 11:00 118 107.118 Diagnostic Stability and Developmental Profiles of Autism in Preschool Age. E. Santocchi¹, M. Proserpi¹, R. Tancredi¹, S. Baldini², R. Iglizzo¹, F. Apicella¹, A. Narzisi¹ and F. Muratori¹, (1)University of Pisa – Stella Maris Scientific Institute, Pisa, Italy, (2)Epilepsy, Neurophysiology and Neurogenetics Unit, Stella Maris Scientific Institute, PISA, Italy
- 12:00 119 107.119 Using Mixed Methodology to Investigate ASD Diagnosis. A. O'Hare^{1,2,3}, C. Catchpole², K. Forsyth², T. Johnson², I. McClure^{3,4}, K. McKenzie³, M. Rutherford^{1,2}, R. Rush² and A. Murray³, (1)NHS Lothian, Edinburgh, United Kingdom, (2)Queen Margaret University, Edinburgh, United Kingdom, (3)University of Edinburgh, Edinburgh, United Kingdom, (4)NHS Lothian, Musselburgh, United Kingdom
- 10:00 120 107.120 Adherence to Clinical Standards and Guidelines for ASD Diagnosis in Child and Adult Services in Scotland. I. McClure^{1,2}, C. Catchpole³, K. Forsyth³, T. Johnson³, K. McKenzie², A. O'Hare^{2,3,4}, M. Rutherford^{3,4}, R. Rush³ and A. Murray², (1)NHS Lothian, Musselburgh, United Kingdom, (2)University of Edinburgh, Edinburgh, United Kingdom, (3)Queen Margaret University, Edinburgh, United Kingdom, (4)NHS Lothian, Edinburgh, United Kingdom
- 11:00 121 107.121 An Action Plan for Improving Efficiency and Quality of the Process of ASD Diagnosis in Adults and Children. M. Rutherford^{1,2}, C. Catchpole¹, K. Forsyth¹, T. Johnson¹, I. McClure^{3,4}, K. McKenzie⁴ and A. O'Hare^{1,2,4}, (1)Queen Margaret University, Edinburgh, United Kingdom, (2)NHS Lothian, Edinburgh, United Kingdom, (3)NHS Lothian, Musselburgh, United Kingdom, (4)University of Edinburgh, Edinburgh, United Kingdom
- 12:00 122 107.122 Using the Child Behavior Checklist (CBCL) for Identification of Toddlers with Autism Spectrum Disorders. A. Narzisi^{1,2}, S. Calderoni³, E. Mottes⁴, S. Maestro⁴ and F. Muratori⁴, (1)University of Pisa - Stella Maris Scientific Institute, Pisa, Italy, (2)Division of Child Neurology and Psychiatry, University of Pisa - Stella Maris Scientific Institute, Pisa, Italy, (3)Magnetic Resonance Laboratory, Division of Child Neurology and Psychiatry University of Pisa; Stella Maris Scientific Institute, Pisa, Italy, (4)University of Pisa – Stella Maris Scientific Institute, Pisa, Italy
- 10:00 123 107.123 Optimization of an Eye-Tracking-Based Categorical Screener for Autism Spectrum Disorders in 18- to 42-Month-Old Children. M. Ly¹, M. Valente, A. Klin and W. Jones, Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA
- 11:00 ▶ 124 107.124 Developing the Inclin Appropriateness Criteria for Autism Spectrum Disorder (INAC-ASD) and Attention Deficit Hyperactivity Disorder (INAC-ADHD). M. Nair¹, S. Gulati², V. B. Deshmukh³, A. Mohapatra³, V. K. Bhutani⁴, D. H. Silberberg⁵, N. K. Arora⁶ and I. Group⁷, (1)Department of Pediatrics, Medical College, Thiruvananthapuram, India, (2)Department of Pediatrics, All India Institute of Medical Sciences, New Delhi, India, (3)The INCLIN Trust International, New Delhi, India, (4)Department of Pediatrics, Division of Neonatal and Developmental Medicine, Stanford University School of Medicine and Lucile Packard Children's Hospital, Stanford, CA, (5)Department of Neurology, University of Pennsylvania Medical Center, Philadelphia, PA, (6)INCLIN Executive Office, The INCLIN Trust International, New Delhi, India, (7)The INCLIN NDD Study Group, The INCLIN Trust International, New Delhi, India
- 12:00 ▶ 125 107.125 Development and Validation of Consensus Clinical Criteria Inclin Diagnostic Tool Kits for Neuro-Motor Impairment (INDT-NMI) and Epilepsy (INDT-EPI). S. Gulati¹, M. Nair², A. Mohapatra³, V. B. Deshmukh³, V. K. Bhutani⁴, D. H. Silberberg⁵, N. K. Arora⁶ and I. Group⁷, (1)Department of Pediatrics, All India Institute of Medical Sciences, New Delhi, India, (2)Department of Pediatrics, Medical College, Thiruvananthapuram, India, (3)The INCLIN Trust International, New Delhi, India, (4)Department of Pediatrics, Division of Neonatal and Developmental Medicine, Stanford University School of Medicine and Lucile Packard Children's Hospital, Stanford, CA, (5)Department of Neurology, University of Pennsylvania Medical Center, Philadelphia, PA, (6)INCLIN Executive Office, The INCLIN Trust International, New Delhi, India, (7)The INCLIN NDD Study Group, The INCLIN Trust International, New Delhi, India

Poster Sessions

108 - Brain Imaging – Functional

9:00 - 13:00 - Banquet Hall

- 10:00 126 108.126 Cognitive Flexibility Applied to Emotional Stimuli in ASD: A Behavioural and fMRI Study. M. Gomot¹, H. Clery², F. Bonnet-Brilhault³, B. Wicker⁴ and P. Fonlupt⁵, (1)Université F. Rabelais, INSERM U930, Tours, France, (2)Université F. Rabelais, INSERM U930, Tours, France, (3)UMR Inserm U930, Tours, France, (4)CNRS UMR 7289, Université Aix-Marseille, Institut de Neurosciences de la Timone, Marseille, France, (5)Centre de Neurosciences de Lyon, INSERM U1028, Bron, France
- 11:00 127 108.127 Atypical Causal Influences Between Brain Regions in Children with Autism Spectrum Disorder. L. Q. Uddin¹, K. Supekar^{2,3}, C. Lynch³, M. Barth⁴, S. Ryali³ and V. Menon², (1)Psychiatry, Stanford University, Palo Alto, CA, (2)Stanford University, Stanford, CA, (3)Stanford University, Palo Alto, CA
- 12:00 128 108.128 Attention Orienting in Autism Spectrum Disorders: Brain Function and Connectivity. J. Fitzgerald¹, J. McGrath², K. A. Johnson³, H. Garavan⁴ and L. Gallagher⁵, (1)Psychiatry, Trinity College Dublin, Dublin, Ireland, (2)Trinity College Dublin, Dublin 14, Ireland, (3)University of Melbourne, Victoria, Australia, (4)University of Vermont, Burlington, VT, (5)Department of Psychiatry, Trinity College Dublin, Dublin, Ireland
- 10:00 129 108.129 Brain Routes for Reading in ASD and Neurotypicals. R. L. Moseley¹, F. Pulvermüller^{1,2} and Y. Shtyrov¹, (1)MRC Cognition and Brain Sciences Unit, Cambridge, United Kingdom, (2)Department of Philosophy and Humanities, Free University, Berlin, Germany
- 11:00 130 108.130 Written Praise Activates Mesolimbic Reward Circuitry in Autism Spectrum Disorders. C. R. Damiano¹, E. Hanna², K. Dunlap³, D. Cockrell⁴, J. Aloï⁴, S. Miller², J. W. Bodfish⁵ and G. S. Dichter⁶, (1)Department of Psychology, University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)Carolina Institute for Developmental Disabilities, University of North Carolina at Chapel Hill, Carrboro, NC, (3)Duke University, Durham, NC, (4)University of North Carolina at Chapel Hill, Chapel Hill, NC, (5)Department of Hearing and Speech Sciences, Vanderbilt University, Nashville, TN, (6)Psychiatry and Psychology, University of North Carolina, Chapel Hill, NC
- 12:00 131 108.131 An fMRI Study of Multisensory Integration of Audiovisual Speech in Autism Spectrum Disorders: Effects of Temporal Synchrony. R. A. Stevenson¹, M. Segers², S. M. Brown³, J. M. Bebko⁴, T. Woynaroski⁵, J. K. Siemann⁶, S. E. Greenberg⁶, S. Oczak² and M. T. Wallace⁶, (1)Vanderbilt University Medical Center, Nashville, TN, (2)York University, Toronto, ON, Canada, (3)Psychology, York University, Toronto, ON, Canada, (4)Department of Psychology, York University, Toronto, ON, Canada, (5)Vanderbilt University, Thompsons Stn, TN, (6)Vanderbilt University, Nashville, TN
- 10:00 132 108.132 Gamma-Band Deficits During Language Processing in Adults with Autism and First-Degree Relatives of Children with Autism: An MEG Study. L. B. Wilson¹, E. Slason¹, B. E. Pasko¹, S. Hepburn² and D. C. Rojas¹, (1)University of Colorado Denver, Anschutz Medical Campus, Aurora, CO, (2)University of Colorado, Aurora, CO
- 11:00 133 108.133 Neural Responses to Biological Motion in the First Year of Life: A Functional Near-Infrared (fNIRS) Study Comparing Low- and High-Risk Infants. L. C. Anderson¹, D. Z. Bolling¹, R. H. Bennett¹, S. K. Mitchell², K. A. Pelphrey² and M. D. Kaiser³, (1)Yale Child Study Center, New Haven, CT, (2)Child Study Center, Yale University, New Haven, CT, (3)Yale University, New Haven, CT
- 12:00 134 108.134 Neural Correlates of Empathy for Social and Physical Pain in Autism. S. Krach¹, I. Kamp-Becker², M. Blanke³, L. Müller-Pinzler¹, J. Sommer⁴, A. Jansen⁴, K. Becker⁵, T. Kircher¹, F. Bremmer³, W. Einhäuser³ and F. M. Paulus^{1,2}, (1)Department of Psychiatry and Psychotherapy, Philipps-University Marburg, Marburg, Germany, (2)Department of Child- and Adolescent Psychiatry and Psychotherapy, Philipps-University Marburg, Marburg, Germany, (3)Department of Neurophysics, Philipps-University Marburg, Marburg, Germany, (4)Philipps-University Marburg, Marburg, Germany, (5)Department of Child- and Adolescent Psychiatry, Psychosomatics and Psychotherapy, Philipps-University Marburg, Marburg, Germany
- 10:00 135 108.135 Neural Responses to Familiar and Unfamiliar Faces in Infants At High Risk for ASD: A Near-Infrared Spectroscopy Study. J. B. Wagner¹, B. Keehn², S. L. Marshall², S. Fox², H. Tager-Flusberg³ and C. A. Nelson², (1)1 Autumn St, AU641, Boston Children's Hospital / Harvard Medical School, Boston, MA, (2)Boston Children's Hospital, Boston, MA, (3)Boston University, Boston, MA
- 11:00 136 108.136 Early Neural Activation During Emotional Face Processing in Children with Autism. R. Leung^{1,2}, E. W. Pang^{1,2,3}, M. L. Smith^{2,3,4} and M. J. Taylor^{1,2,3}, (1)University of Toronto, Toronto, ON, Canada, (2)Hospital for Sick Children, Toronto, ON, Canada, (3)Research Institute, Hospital for Sick Children, Toronto, ON, Canada, (4)University of Toronto, Mississauga, ON, Canada
- 12:00 137 108.137 Increased Occipito-Frontal and Decreased Basal Ganglia Coupling During Reasoning in Autistics. I. Simard¹, I. Soulières² and T. A. Zeffiro³, (1)Service de Recherche, Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada, (2)University of Quebec in Montreal, Montreal, QC, Canada, (3)Neural Systems Group, Massachusetts General Hospital, Charlestown, MA
- 10:00 138 108.138 Alterations of the Theory of Mind Network in Adults with ASD. J. Suttrup^{1,2}, H. Meffert², B. B. Sizoo³, J. A. C. J. Bastiaansen², N. Valchev², L. Cerliani^{1,2}, C. Keysers^{1,4} and M. Thioux^{1,2}, (1)Social Brain Lab, Netherlands Institute for Neuroscience, Amsterdam, Netherlands, (2)NeuroImaging Center Groningen, Groningen, Netherlands, (3)Dimence, Deventer, Netherlands, (4)Department for Neuroscience, University of Groningen, University Medica Center Groningen, Groningen, Netherlands
- 11:00 139 108.139 Inhibition of Superior Temporal Sulcus Activity by Repetitive Transcranial Magnetic Stimulation: The Effects On Social Perception and Implications for Autism. A. Saitovitch¹, T. Popa², D. Grévent¹, R. P. Calmon¹, S. Meunier², N. Chabane³, F. Brunelle¹, Y. Samson⁴, N. Boddaert¹ and M. Zilbovicius¹, (1)INSERM Unity 1000, Necker Hospital, Paris, France, (2)University Pierre et Marie Curie, ICM - Pitié-Salpêtrière Hospital, Paris, France, (3)INSERM Unity 1000, Robert Debre Hospital, Paris, France, (4)Pitié-Salpêtrière Hospital, Paris, France
- 12:00 140 108.140 Temporo-Cerebellar Interactions Predict Mentalizing Ability in Youth with Autism: Fmri and DTI Evidence. A. Jack¹ and J. P. Morris², (1)Child Study Center, Yale University, New Haven, CT, (2)Psychology, University of Virginia, Charlottesville, VA
- 10:00 141 108.141 Functional Neuroimaging Correlates of Intentional Biological Motion Processing in Unaffected Siblings of Children with ASD. A. A. Ahmed¹ and B. C. Vander Wyk, Yale Child Study Center, Yale University, New Haven, CT

- 11:00 142 108.142 The Influence of Social Valence On Imitation and Observation of Facial Expressions in Autism Spectrum Disorder. M. Schulte-Rüther^{1,2}, A. Pohl³, S. Krall^{1,2}, E. Oberwelland^{1,2}, G. R. Fink^{2,4}, B. Herpertz-Dahlmann⁵ and K. Konrad^{1,2}, (1)Child Neuropsychology Section, Department of Child and Adolescent Psychiatry, Psychosomatics, and Psychotherapy, University Hospital Aachen, Aachen, Germany, (2)Cognitive Neuroscience, Institute of Neuroscience and Medicine (INM-3), Research Center Jülich, Jülich, Germany, (3)Department of Psychiatry, Psychosomatics, and Psychotherapy, University Hospital Aachen, Aachen, Germany, (4)Department of Neurology, University Hospital Cologne, Cologne, Germany, (5)Department of Child and Adolescent Psychiatry, Psychosomatics, and Psychotherapy, University Hospital Aachen, Aachen, Germany
- 12:00 143 108.143 Oscillatory Neural Responses to Speech and Nonspeech Sounds in a Nonverbal Child with Autism. S. Yau¹ and J. Brock², (1)Centre for Cognition and its Disorders, Macquarie Centre for Cognitive Science, Sydney, Australia, (2)Macquarie University, Sydney, Australia
- 10:00 144 108.144 Associations Between the EFHC2 Gene and Male Vulnerability to Impaired Social Cognition. C. M. Startin¹, C. R. Gibbard², C. A. Clark² and D. H. Skuse³, (1)Behavioural and Brain Sciences Unit, UCL Institute of Child Health, London, United Kingdom, (2)Imaging and Biophysics Unit, UCL Institute of Child Health, London, United Kingdom, (3)Behavioural and Brain Sciences Unit, Institute of Child Health, UCL, London, United Kingdom
- 11:00 145 108.145 Diagnostic Classification for Autism in Male Adults Based On Resting State fMRI Fractal Connectivity. M. V. Lombardo¹, M. C. Lai¹, B. Chakrabarti², J. Suckling³, M. R. C AIMS Consortium⁴, S. Baron-Cohen¹ and E. T. Bullmore³, (1)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (2)University of Reading, Reading, United Kingdom, (3)University of Cambridge, Cambridge, United Kingdom, (4)University of Cambridge, Institute of Psychiatry, University of Oxford, Cambridge, United Kingdom
- 12:00 146 108.146 Functional Brain Maturation in Children and Adults with ASD Across 3 Cognitive Tasks (Attention, Temporal Discounting and Decision-Making): An fMRI Investigation. C. M. Murphy^{1,2}, A. Christakou³, E. Daly⁴, C. Ecker⁴, P. Johnston⁵, A. B. Smith³, V. Giampietro⁶, M. Brammer⁶, D. Robertson⁷, D. Spain¹, M. AIMS¹, D. G. Murphy⁸ and K. Rubia⁹, (1)King's College London, Institute of Psychiatry, London, United Kingdom, (2)Department of Forensic and Neurodevelopmental Sciences, King's College London, Institute of Psychiatry, London, United Kingdom, (3)Child & Adolescent Psychiatry, King's College London, Institute of Psychiatry, London, United Kingdom, (4)Department of Forensic and Neurodevelopmental Sciences, King's College London, Institute of Psychiatry, London, United Kingdom, (5)De Crespigny Park, King's College London, Institute of Psychiatry, London, United Kingdom, (6)Centre for Neuroimaging, King's College London, Institute of Psychiatry, London, United Kingdom, (7)Department of Forensic and Neurodevelopmental Sciences, King's College London, Institute of Psychiatry, London, United Kingdom, (8)Forensic and Neurodevelopmental Sciences Department, Institute of Psychiatry, King's College London, London, United Kingdom, (9)Department of Child & Adolescent Psychiatry, King's College London, Institute of Psychiatry, London, United Kingdom
- 10:00 147 108.147 Atypical Brain Correlates of Automatic Visual Change Detection in Autism. H. Clery¹, F. Andersson¹, F. Bonnet-Brihault², B. Wicker³ and M. Gomot¹, (1)INSERM U930, Université François Rabelais, Tours, France, (2)UMR Inserm U930, Tours, France, (3)CNRS UMR 7289, Université Aix-Marseille, Institut de Neurosciences de la Timone, Marseille, France
- 11:00 148 108.148 Functional Magnetic Resonance Imaging in Intellectual Impairment and Autism Spectrum Disorder. A. G. McKechnie^{1,2}, T. W. J. Moorhead¹, C. Thorburn¹, N. Roberts³, E. C. Johnstone¹, D. G. C. Owens¹ and A. C. Stanfield^{1,2}, (1)Division of Psychiatry, University of Edinburgh, Edinburgh, United Kingdom, (2)The Patrick Wild Centre, University of Edinburgh, Edinburgh, United Kingdom, (3)Clinical Research Imaging Centre, University of Edinburgh, Edinburgh, United Kingdom
- 12:00 149 108.149 Serotonin and Restricted, Repetitive and Stereotyped Behaviors in Autism. E. Daly¹, C. Ecker¹, C. M. Murphy¹, N. Gillan¹, M. Gudbrandsen¹, V. D'Almeida², D. Robertson¹ and D. G. Murphy³, (1)Department of Forensic and Neurodevelopmental Sciences, King's College London, Institute of Psychiatry, London, United Kingdom, (2)Centre For Neuroimaging Sciences, Institute of Psychiatry, King's College London, London, United Kingdom, (3)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College London, London, United Kingdom
- 10:00 150 108.150 Neural Correlates of Emotion Recognition in Music in Adults with Autism Spectrum Disorder. L. Gebauer¹, J. Skewes¹, P. Heaton² and P. Vuust^{1,3}, (1)Center of Functionally Integrative Neuroscience, Aarhus University, Aarhus, Denmark, (2)Psychology, Goldsmiths College, University of London, London, United Kingdom, (3)The Royal Academy of Music, Denmark, Aarhus, Denmark
- 11:00 151 108.151 An Investigation of the Role of the Brain GABA-Benzodiazepine Receptor Alpha-5 Subtype in Autism Spectrum Disorder Using the Benzodiazepine Inverse Agonist PET Ligand [¹¹C]Ro15-4513. M. A. Mendez^{1,2}, J. Horder¹, J. F. Myers³, S. Coghlan¹, P. R. Stokes², D. Erritzoe², O. Howes⁴, A. Lingford-Hughes², D. J. Nutt² and D. G. Murphy¹, (1)Forensic and Neurodevelopmental Sciences Department, Institute of Psychiatry, King's College London, London, United Kingdom, (2)Centre for Neuropsychopharmacology, Division of Brain Sciences, Dept of Medicine, Imperial College London, London, United Kingdom, (3)Psychopharmacology Unit, Bristol University, Bristol, United Kingdom, (4)Psychiatric Imaging Group, MRC Clinical Sciences Centre, London, United Kingdom
- 12:00 152 108.152 Large-Scale Cortical Functional Connectivity During Social Scene Processing in ASD. B. Wicker¹, CNRS UMR 7289, Université Aix-Marseille, Institut de Neurosciences de la Timone, Marseille, France
- 10:00 153 108.153 Intact Mirror Neuron Systems in Autism: A Meta-Analysis. A. Hamilton¹, School of Psychology, University of Nottingham, Nottingham, United Kingdom
- 11:00 154 108.154 The Influence of Cognitive Load On Working Memory in Children with Autism. V. Vogan¹, W. Lee¹, B. Morgan¹, M. L. Smith², E. Anagnostou³ and M. J. Taylor¹, (1)Hospital for Sick Children, Toronto, ON, Canada, (2)Research Institute, Hospital for Sick Children, Toronto, ON, Canada, (3)University of Toronto, Toronto, ON, Canada
- 12:00 155 108.155 Investigating Functional Connectivity in a Large Sample of Children with Autism Spectrum Disorders. B. Deen¹, R. Saxe² and K. A. Pelphrey³, (1)Brain and Cognitive Sciences, Massachusetts Institute of Technology, Cambridge, MA, (2)Brain and Cognitive Sciences, MIT, Cambridge, MA, (3)Child Study Center, Yale University, New Haven, CT
- 12:00 156 108.156 Atypical Functional Connectivity in Children with Autism Spectrum Disorder Using Magnetoencephalography (MEG). S. Desai¹, L. B. Hinkley², S. S. Hill³, J. Harris¹, A. D. Antovich¹, S. Nagarajan⁴ and E. Marco³, (1)University of California, San Francisco, San Francisco, CA, (2)UCSF Autism & Neurodevelopment Program, San Francisco, CA, (3)University of California San Francisco, San Francisco, CA, (4)Radiology, University of California, San Francisco, San Francisco, CA

- 11:00 157 108.157 Numerosity Estimation in Autism: A MEG Study. E. Meaux^{1,2}, M. J. Taylor¹, E. W. Pang¹ and M. Batty², (1)Department of Diagnostic Imaging, Hospital for Sick Children, Toronto, ON, Canada, (2)Pedopsychiatrie, INSERM U930, Tours, France
- 12:00 158 108.158 Sex-Differential Fractal Complexity of Resting-State Brain Oscillations in Autism. M. C. Lai¹, M. Lombardo², B. Chakrabarti³, A. N. Ruigrok⁴, E. T. Bullmore⁴, S. Baron-Cohen¹, M. A. Consortium⁵ and J. Suckling⁴, (1)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (2)University of Cambridge, Autism Research Centre, Cambridge, United Kingdom, (3)Centre for Integrative Neuroscience and Neurodynamics, University of Reading, Reading, United Kingdom, (4)University of Cambridge, Cambridge, United Kingdom, (5)University of Cambridge, Institute of Psychiatry, University of Oxford, Cambridge, United Kingdom
- 10:00 159 108.159 The Autism Brain Imaging Data Exchange (ABIDE): Analytical Approaches and Initial Results. A. Di Martino¹ and Autism Brain Imaging Data Exchange (ABIDE) Consortium², (1)Child Psychiatry, NYU Langone Medical Center Child Study Center, New York, NY, (2)Multiple Organizations, Multiple, NY
- 11:00 160 108.160 Is Autism Characterized by Enhanced Variability in Task-Related Brain Activation?. M. P. Poulin-Lord¹, E. B. Barbeau¹, F. Samson¹, I. Soulières² and L. Mottron¹, (1)Service de Recherche, Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada, (2)University of Quebec in Montreal, Montreal, QC, Canada
- 12:00 161 108.161 The Impact of a Visualization Language Intervention On Brain Activation and Connectivity in Children with Autism. D. L. Murdaugh¹, M. L. Morris, A. R. Lemelman, S. E. O'Kelley and R. K. Kana, University of Alabama at Birmingham, Birmingham, AL
- 10:00 162 108.162 An Activation Likelihood Estimation Meta-Analysis of Social Cognition in Autism Spectrum Disorders. M. Patriquin¹, L. Libero² and R. K. Kana², (1)Virginia Tech, Blacksburg, VA, (2)University of Alabama at Birmingham, Birmingham, AL
- 11:00 163 108.163 Neurodevelopmental Trajectory of Emotional Attribution in Autism. L. E. Libero¹, C. E. Stevens and R. K. Kana, University of Alabama at Birmingham, Birmingham, AL
- 12:00 164 108.164 Discriminative Potential of MEG Coherence Imaging of Averted Eye Gaze Processing in Autism Spectrum Disorders. R. Lajiness-O'Neill¹, A. E. Richard², J. E. Moran³ and S. M. Bowyer³, (1)2101 Commonwealth, Ste. C, University of Michigan Health System, Ann Arbor, MI, (2)Psychology, Eastern Michigan University, Ypsilanti, MI, (3)Neurology, Henry Ford Hospital, Detroit, MI
- 10:00 165 108.165 Increased Posterior Cortical Recruitment Mediates Shift From Local to Global Processing in Children with Autism. S. L. Kumar¹, H. M. Wadsworth and R. K. Kana, University of Alabama at Birmingham, Birmingham, AL
- 11:00 166 108.166 Brain Response to Fearful Faces in ASD with Regression: Research Update. A. Westphal¹, C. Cordeaux², A. Voos³, B. C. Vander Wyk⁴, M. D. Kaiser⁵ and K. A. Pelphrey², (1)Yale Child Study Center, Hamden, CT, (2)Child Neuroscience Lab, Child Study Center, Yale School of Medicine, New Haven, CT, (3)UC Santa Barbara, Santa Barbara, CA, (4)Yale Child Study Center, Yale University, New Haven, CT, (5)Yale University, New Haven, CT
- 12:00 167 108.167 Disrupted Effective Connectivity Underlying Self-Other Representation in Autism. C. E. Stevens¹, H. D. Deshpande¹, C. L. Klein², M. R. Klinger³, L. G. Klinger⁴ and R. K. Kana¹, (1)University of Alabama at Birmingham, Birmingham, AL, (2)Psychology, Marietta College, Marietta, OH, (3)University of North Carolina - Chapel Hill, Chapel Hill, NC, (4)TEACCH Autism Program, Department of Psychiatry, University of North Carolina, Chapel Hill, NC
- 10:00 168 108.168 Neural Correlates of Implicit Contextual Learning in Adults with ASD. P. S. Powell¹, M. R. Klinger², L. G. Klinger³ and R. K. Kana⁴, (1)Psychology, University of North Carolina - Chapel Hill, Chapel Hill, NC, (2)University of North Carolina - Chapel Hill, Chapel Hill, NC, (3)TEACCH Autism Program, Department of Psychiatry, University of North Carolina, Chapel Hill, NC, (4)University of Alabama at Birmingham, Birmingham, AL
- 11:00 169 108.169 Functional Connectivity of the Amygdala in 2- to 5-Year-Old Children with Autism Spectrum Disorder. M. D. Shen¹, D. D. Li¹, R. T. Johnson¹, A. Lee¹, K. Angkustsiri², S. J. Rogers¹, D. G. Amaral¹ and C. W. Nordahl¹, (1)M.I.N.D. Institute and Department of Psychiatry and Behavioral Sciences, University of California Davis Medical Center, Sacramento, CA, (2)M.I.N.D. Institute and Department of Pediatrics, University of California Davis Medical Center, Sacramento, CA
- 12:00 170 108.170 Motor Cortex Functional Connectivity Signatures of Autism. M. B. Nebel^{1,2}, A. Eloyan³, A. D. Barber^{1,2}, B. S. Caffo³, J. J. Pekar^{1,2} and S. H. Mostofsky^{1,2}, (1)Kennedy Krieger Institute, Baltimore, MD, (2)Johns Hopkins School of Medicine, Baltimore, MD, (3)Johns Hopkins Bloomberg School of Public Health, Baltimore, MD
- 10:00 171 108.171 Probabilistic Reinforcement Learning in Young Adults with Autism Spectrum Disorders Reflects Cognitive Control Deficits. M. Solomon¹, M. J. Frank², A. C. Smith³, J. D. Ragland^{4,5}, M. J. Minzenberg³, T. A. Niendam^{6,7}, J. H. Yoon^{5,6}, T. A. Lesh^{5,8} and C. S. Carter^{5,6}, (1)Department of Psychiatry, M.I.N.D. Institute, Imaging Research Center, Sacramento, CA, (2)Brown University, Providence, RI, (3)UC Davis, Sacramento, CA, (4)Psychiatry, UC Davis, Sacramento, CA, (5)Imaging Research Center, Sacramento, CA, (6)UC Davis, Psychiatry, Sacramento, CA, (7)Imaging Research Center, Sacramento, CA, (8)Psychiatry, UC Davis, Sacramento, CA
- 11:00 172 108.172 Relationships Between Resting State Neural Connectivity and Individual Differences in ASD Symptoms. G. K. Bartley¹, A. N. Browne¹, J. D. Herrington² and R. T. Schultz¹, (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA
- 12:00 173 108.173 Establishing fMRI Test-Retest Reliability: Implications for fMRI Biomarkers of Treatment Efficacy. M. H. McDermott¹, A. N. Browne¹, L. Guy², J. D. Herrington³ and R. T. Schultz¹, (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)The Children's Hospital of Philadelphia, Philadelphia, PA, (3)Children's Hospital of Philadelphia, Philadelphia, PA
- 10:00 174 108.174 Brain-to-Brain Communication in Autism. G. Dumas^{1,2,3,4}, E. Mercier⁵, J. Martinerie^{1,2,3,4}, R. Soussignan⁶ and J. Nadel⁵, (1)CNRS UMR 7225, Paris, France, (2)CRICM, UPMC, Paris, France, (3)INSERM U975, Paris, France, (4)ICM, Paris, France, (5)CNRS USR 3246, Centre Emotion, La Salpêtrière Hospital, Paris, France, (6)CNRS UMR 517, CSGA, Dijon, France

- 11:00 ♦175 108.175 A Comparison of Global Brain Volume, Regional Grey Matter and White Matter in Autism Spectrum Disorder and Its Relationship with Symptom Severity in Children and Adolescents: A Voxel-Based Morphometry Study. V. D'Almeida¹, A. Shahidiani¹, E. Daly², L. Van-Hemert¹, N. Gillan³, C. Ecker², D. Spain³, M. Gudbrandsen⁴, S. C. Deoni⁵, S. C. Williams¹ and D. G. Murphy⁶, (1)Centre for Neuroimaging Sciences, King's College London, Institute of Psychiatry, London, United Kingdom, (2)Department of Forensic and Neurodevelopmental Sciences, King's College London, Institute of Psychiatry, London, United Kingdom, (3)Department of Forensic and Neurodevelopmental Sciences, King's College London, Institute of Psychiatry, London, United Kingdom, (4)Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, London, United Kingdom, (5)School of Engineering, Brown University, Providence, RI, (6)Forensic and Neurodevelopmental Sciences Department, Institute of Psychiatry, King's College London, London, United Kingdom
- 12:00 ♦176 108.176 A Two-Year Longitudinal Pilot MRI Study of the Brainstem in Autism. R. J. Jou¹, T. W. Frazier², M. S. Keshavan³, N. J. Minshew⁴ and A. Y. Hardan⁵, (1)Child Neuroscience Lab, Child Study Center, Yale School of Medicine, New Haven, CT, (2)Center for Autism, Cleveland Clinic Lerner College of Medicine, Cleveland, OH, (3)Department of Psychiatry, Harvard Medical School, Boston, MA, (4)University of Pittsburgh, Pittsburgh, PA, (5)Psychiatry and Behavioral Sciences, Stanford University School of Medicine, Stanford, CA
- 10:00 ♦177 108.177 Decreased Frontal Gyrfication Correlates with Altered Connectivity in Children with Autism. M. Schaer¹, S. Eliez², E. Scariati² and B. Glaser², (1)Office Médico-Pédagogique, University of Geneva Medical School, Geneva, Switzerland, (2)Office Medico-Pedagogique, University of Geneva Medical School, Geneva, Switzerland

14:30-16:30	Educational Symposia – Auditorium Measuring Treatment Change in Core Symptoms: Novel Methods, Meaningful Outcomes			14:00-18:00 Poster Sessions – Banquet Hall Young Children, Schools Neuropathology Brain Imaging - Structural Adults, Lifespan, Methods Core Deficits I
14:30-16:30	Oral Session – Chamber Hall Screening and Diagnosis	Oral Session – Meeting Room 1 & 2 Language Development	Oral Session – Meeting Room 3 Medical and Emotional-Behavioral Comorbidity	
16:30-17:00	Break – Exhibit Area/Poster Area			
17:00-18:30	INSAR Awards Ceremony - Auditorium			
19:00-20:30	Opening Reception – San Telmo Museum (offsite)			
20:45-23:30	INSAR Student Member Social/Dinner – Cofradia Gastronómica (Basque Gastronomic Brotherhood) (offsite)			

Educational Symposium
109 - Measuring Treatment Change in Core Symptoms: Novel Methods, Meaningful Outcomes
 14:30 - 16:30 - Auditorium

Session Chair: L. B. Adamson¹, C. Kasari²; (1)Georgia State University, (2)University of California Los Angeles

A priority of the 2011 Interagency Autism Coordinating Council concerns 'Identifying methods for measuring changes in core symptoms of ASD from treatment'. The underlying issue is that we have few validated measures or methods to reliably assess change in core deficits that result from interventions. Currently, outcome measures for treatments focus on standardized test results (IQ, language, adaptive behavior) or reports of behaviors by parents or teachers that may indirectly assess the intervention targets. Change in core developmental difficulties are rarely assessed as an outcome of intervention yet, they may be some of the most important measures of sustainable, meaningful change. This panel's main learning goals are to introduce new ways to measure meaningful treatment change and to provide compelling evidence of the sensitivity of these novel methods.

To this end, researchers on this panel will describe advances in autism-focused assessment, observational methods, and computing technologies that can produce valuable information about meaningful treatment change. Data will be drawn from studies of core deficits in social communication, joint engagement, and social relations in populations that include infants and toddlers with autism, underserved children assessed in schools, and minimally verbal individuals with ASD and that focus on core symptom change.

- 14:30 109.001 Peer Social Skills and Social Relationships: Measuring Change in Real World School Settings. C. Kasari¹, M. Kretzmann² and M. Dean³, (1)University of California Los Angeles, Los Angeles, CA, (2)Psychiatry, University of California Los Angeles, Los Angeles, CA, (3)University of California, Los Angeles, Los Angeles, CA
- 15:00 109.002 Measuring Emerging Changes in Social Communication. C. Lord¹, T. Carr² and R. Grzadzinski³, (1)Center for Autism and the Developing Brain, Weill Cornell Medical College, White Plains, NY, (2)University of Michigan, Ann Arbor, MI, (3)Clinical and Counseling Psychology, Teachers College, Columbia University, New York, NY

- 15:30 109.003 Systematically Observing Changes in Joint Engagement During Parent-Child Interactions. L. B. Adamson¹, R. Bakeman¹ and D. L. Robins², (1)Georgia State University, Atlanta, GA, (2)Department of Psychology, Georgia State University, Atlanta, GA
- 16:00 109.004 Using Computational Tools to Measure Social Communication and Engagement in Young Children. G. D. Abowd¹, A. Rozga¹, J. M. Rehg¹ and M. Clements², (1)School of Interactive Computing, Georgia Institute of Technology, Atlanta, GA, (2)School of Electrical and Computer Engineering, Georgia Institute of Technology, Atlanta, GA

Oral Sessions
110 - Medical and Emotional-Behavioral Comorbidity
 14:30 - 16:30 - Meeting Room 3

- 14:30 110.001 Correlates of Parent-Reported SLEEP Problems in Preschool Children with Autism Spectrum Disorder. L. Zwaigenbaum¹, I. M. Smith², P. Mirenda³, W. Roberts⁴, T. Vaillancourt⁵, J. A. Jivraj⁶, P. Szatmari⁷, S. Georgiades⁷, E. Duku⁷, A. Thompson⁷, S. E. Bryson⁸, E. Fombonne⁹, J. Volden¹ and C. Waddell¹⁰, (1)University of Alberta, Edmonton, AB, Canada, (2)Dalhousie / IWK Health Centre, Halifax, NS, Canada, (3)University of British Columbia, Vancouver, BC, Canada, (4)University of Toronto, Toronto, ON, Canada, (5)University of Ottawa, Ottawa, ON, Canada, (6)Department of Pediatrics, University of Alberta, Edmonton, AB, Canada, (7)Offord Centre for Child Studies & McMaster University, Hamilton, ON, Canada, (8)Dalhousie University / IWK Health Centre, Halifax, NS, Canada, (9)Montreal Children's Hospital, Montreal, QC, Canada, (10)Simon Fraser University, Burnaby, BC, Canada

- 14:45 110.002 Clinical Characteristics of Children with Autism Spectrum Disorder and Co-Occurring Epilepsy. E. W. Viscidi¹, M. F. Pescosolido², R. McLean³, E. W. Triche⁴, R. M. Joseph⁵, S. J. Spence⁶ and E. M. Morrow². (1)Community Health, Brown University, Providence, RI, (2)Molecular Biology, Cell Biology and Biochemistry, Brown University, Providence, RI, (3)Psychiatry and Human Behavior, Brown University, Providence, RI, (4)Epidemiology, Brown University, Providence, RI, (5)Anatomy and Neurobiology, Boston University School of Medicine, Boston, MA, (6)Children's Hospital Boston, Boston, MA
- 15:00 110.003 Dimensions of Callous-Unemotional Traits in Autism Spectrum Disorder. S. R. Martins¹, W. Mandy², D. H. Skuse³ and L. Roughton¹. (1)DCAMHS, Great Ormond Street Hospital NHS Foundation Trust, London, United Kingdom, (2)Division of Psychology and Language Sciences, Faculty of Brain Sciences, UCL, London, United Kingdom, (3)Behavioural and Brain Sciences Unit, Institute of Child Health, UCL, London, United Kingdom
- 15:15 110.004 Mental Health Difficulties in Toddlers At High-Risk for Autism Spectrum Disorders. K. N. Crea¹, C. Dissanayake² and K. Hudry³. (1)School of Psychological Science, Olga Tennison Autism Research Centre, Bundoora, Australia, (2)Olga Tennison Autism Research Centre, La Trobe University, Melbourne, Australia, (3)Olga Tennison Autism Research Centre, School of Psychological Science, La Trobe University, Bundoora, Australia
- 15:30 110.005 The Utility of Psychophysiological Approaches in Assessing the Validity of Comorbid Anxiety in Autism Spectrum Disorders. L. Sterling¹, P. Renno², G. Dawson³ and J. J. Wood⁴. (1)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA, (2)Graduate School of Education and Information Sciences, UCLA, Los Angeles, CA, (3)Autism Speaks, UNC Chapel Hill, Chapel Hill, NC, (4)University of California Los Angeles, Los Angeles, CA
- 15:45 110.006 Urinary p-Cresol in Autism Spectrum Disorder. A. M. Persico¹, Child and Adolescent NeuroPsychiatry Unit, Laboratory of Molecular Psychiatry and Neurogenetics, University Campus Bio-Medico, Rome, Italy
- 16:00 110.007 Emotion Regulation: Relations with Socio-Emotional Adjustment in Preschoolers with Autism Spectrum Disorders and Typically Developing Peers. N. M. Reyes¹ and A. Scarpa². (1)Psychology, Virginia Tech, Blacksburg, VA, (2)Virginia Tech, Blacksburg, VA
- 16:15 110.008 Prevalence of and Associations with Co-Morbid Psychiatric Symptoms in Children with ASD in an Urban Elementary School District. A. S. Nahmias¹ and D. S. Mandell². (1)University of Pennsylvania, Philadelphia, PA, (2)Psychiatry, Center for Mental Health Policy and Services Research, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA
- 14:45 ▶ 111.002 Development of a Culture Appropriate Screening Tool (NDST) for Detecting Neuro-Developmental Disorders in Children in the Community. A. Mohapatra¹, V. B. Deshmukh¹, M. Nair², S. Gulati³, V. K. Bhutani⁴, D. H. Silberberg⁵, N. K. Arora⁶ and I. Group⁷. (1)The INCLEN Trust International, New Delhi, India, (2)Department of Pediatrics, Medical College, Thiruvananthapuram, India, (3)Department of Pediatrics, All India Institute of Medical Sciences, New Delhi, India, (4)Department of Pediatrics, Division of Neonatal and Developmental Medicine, Stanford University School of Medicine and Lucile Packard Children's Hospital, Stanford, CA, (5)Department of Neurology, University of Pennsylvania Medical Center, Philadelphia, PA, (6)INCLEN Executive Office, The INCLEN Trust International, New Delhi, India, (7)The INCLEN NDD Study Group, The INCLEN Trust International, New Delhi, India
- 15:00 111.003 Clinical Assessment of ASD in Adults Using Self and Other Report: Psychometric Properties and Validity of the Adult Social Behavior Questionnaire (ASBQ). E. H. Horwitz¹, R. A. Schoevers¹, R. B. Minderaa², D. Wiersma¹ and C. A. Hartman³. (1)University Medical Center Groningen, Groningen, Netherlands, (2)University of Groningen and University Medical Center Groningen, Groningen, Netherlands, (3)University of Groningen, University Medical Center Groningen, Groningen, Netherlands
- 15:15 111.004 Can Internal Metrics of Reporting Bias Enhance Early Screening Measures? C. M. Taylor¹, A. Vehorn², H. Noble², J. A. Crittendon¹, W. A. Loring², C. R. Newsom³, A. Nicholson² and Z. Warren¹. (1)Vanderbilt Kennedy Center, Nashville, TN, (2)Vanderbilt University, Nashville, TN, (3)Pediatrics, Psychiatry, & Psychology, Vanderbilt University, Nashville, TN
- 15:30 111.005 Moving towards Rapid and Mobile Detection of Autism. D. Wall¹, 10 Shattuck Street, Harvard Medical School, Boston, MA
- 15:45 111.006 Sex Differences in the Clinical Profiles of Children at Risk for Autism Based On the Modified Checklist for Autism in Toddlers (M-CHAT). N. N. Ludwig¹, D. L. Robins² and D. A. Fein³. (1)Psychology, Georgia State University, Atlanta, GA, (2)Department of Psychology, Georgia State University, Atlanta, GA, (3)Clinical Psychology, University of Connecticut, Storrs, CT
- 16:00 111.007 Abnormalities of the Serotonin-NAS-Melatonin Pathway in Autism Spectrum Disorders. C. Pagan¹, H. Goubran Botros¹, G. Huguet¹, M. Leboyer², R. Delorme³, J. M. Launay⁴ and T. Bourgeron⁵. (1)Neuroscience, Institut Pasteur, Paris, France, (2)INSERM U 955, Hôpital Chenevier-Mondor, Créteil, France, (3)Hôpital Robert Debré, PARIS, France, (4)Hôpital Lariboisière, Paris, France, (5)Institut Pasteur CNRS URA 2182, Paris Diderot University, Paris, France
- 16:15 111.008 Behavioral Markers Predictive of ASD in High-Risk Infants at Six Months. J. A. Brian¹, L. Zwaigenbaum², S. E. Bryson³, W. Roberts⁴, I. M. Smith⁵, P. Szatmari⁵, C. Roncadin⁶, N. Garon⁷ and T. Vaillancourt⁸. (1)150 Kilgour Rd., Holland Bloorview / Sick Kids, Toronto, ON, Canada, (2)Glenrose Rehabilitation Hospital, University of Alberta, Edmonton, AB, Canada, (3)Dalhousie / IWK Health Centre, Halifax, NS, Canada, (4)University of Toronto, Toronto, ON, Canada, (5)Offord Centre for Child Studies & McMaster University, Hamilton, ON, Canada, (6)Peel Children's Centre, Mississauga, ON, Canada, (7)Mount Allison University, Sackville, NB, Canada, (8)University of Ottawa, Ottawa, ON, Canada

Oral Sessions

111 - Screening and Diagnosis

14:30 - 16:30 - Chamber Hall

- 14:30 111.001 Specificity of the Social Responsiveness Scale When Used with Children with Other Diagnoses. V. Hus¹, S. L. Bishop² and C. Lord². (1)Department of Psychology, University of Michigan, Ann Arbor, MI, (2)Center for Autism and the Developing Brain, Weill Cornell Medical College, White Plains, NY

Oral Sessions

112 - Language Development

14:30 - 16:30 - Meeting Room 1 & 2

- 14:30 112.001 Longitudinal Look at Expressive, Receptive and Total Language Development in Individuals with Autism Spectrum Disorders. A. Cariello¹, S. E. Tolley², M. D. Prigge³, E. S. Neeley², N. Lange⁴, A. L. Alexander⁵, A. L. Froehlich³, E. D. Bigler³ and J. E. Lainhart¹, (1)University of Utah, Salt Lake City, UT, (2)Brigham Young University, Provo, UT, (3)Psychiatry, University of Utah, Salt Lake City, UT, (4)McLean Hospital, Belmont, MA, (5)University of Wisconsin, Madison, WI
- 14:45 112.002 Language Development in Children with ASD: A Longitudinal Study of Grammar and Lexicon. E. C. Kelty¹, D. A. Fein² and L. Naigles³, (1)Psychology, University of Connecticut, Storrs, CT, (2)Clinical Psychology, University of Connecticut, Storrs, CT, (3)University of Connecticut, Storrs, CT
- 15:00 112.003 How Many Children with Autism Spectrum Disorder Are Functionally Nonverbal?. P. Miranda¹, I. M. Smith², J. Volden³, P. Szatmari⁴, S. E. Bryson⁵, E. Fombonne⁶, W. Roberts⁷, T. Vaillancourt⁸, C. Waddell⁹, L. Zwaigenbaum¹⁰, S. Georgiades⁴, E. Duku⁴ and A. Thompson⁴, (1)University of British Columbia, Vancouver, BC, Canada, (2)Dalhousie University / IWK Health Centre, Halifax, NS, Canada, (3)University of Alberta, Edmonton, AB, Canada, (4)Offord Centre for Child Studies & McMaster University, Hamilton, ON, Canada, (5)Dalhousie University / IWK Health Centre, Halifax, NS, Canada, (6)Montreal Children's Hospital, Montreal, QC, Canada, (7)University of Toronto, Toronto, ON, Canada, (8)University of Ottawa, Ottawa, ON, Canada, (9)Simon Fraser University, Burnaby, BC, Canada, (10)Glenrose Rehabilitation Hospital, University of Alberta, Edmonton, AB, Canada
- 15:15 112.004 Agreement Across Multiple Modes of Language Assessment in Minimally Verbal Children with Autism. C. Mucchetti¹, K. Goods¹, K. K. Krueger¹, C. Kasari¹, A. P. Kaiser², J. P. Nietfeld², P. Mathys² and R. Landa³, (1)University of California Los Angeles, Los Angeles, CA, (2)Vanderbilt University, Nashville, TN, (3)Kennedy Krieger Institute, Baltimore, MD
- 15:30 112.005 Detail and Gestalt Focus in Spontaneous Descriptions by Individuals with Optimal Outcomes From ASD. A. H. Fitch¹, D. A. Fein and I. M. Eigsti, Clinical Psychology, University of Connecticut, Storrs, CT
- 15:45 112.006 Narrative Abilities and Internal State Language in Children with Autism Spectrum Disorder and Typically Developing Children. A. George¹, M. R. Swanson¹, G. Serlin² and M. Siller³, (1)Hunter College, New York, NY, (2)Hunter College, Astoria, NY, (3)Psychology, Hunter College of the City University of New York, New York, NY
- 16:00 112.007 A Comparison of Syntactic Skills in Children with Autism or SLI: Similar Performance, but Different Errors. N. Sukenik¹ and N. Friedmann, Language and Brain Lab, Tel Aviv University, Tel Aviv, Israel
- 16:15 112.008 Does the Verbal Comprehension Index (VCI) Score of the WISC-IV:UK Detect Language Impairments in School-Aged Children with Autism Spectrum Conditions? S. M. Staunton¹, M. Murin², O. Baykaner², W. Mandy³, S. Anderson¹, J. Hellriegel⁴, C. Walters⁵ and D. H. Skuse¹, (1)Behavioural and Brain Sciences Unit, Institute of Child Health, UCL, London, United Kingdom, (2)National Centre for High Functioning Autism, Department of Child & Adolescent Mental Health (DCAMH), Great Ormond Street Hospital for Children NHS Foundation Trust, London, United Kingdom, (3)Division of Psychology and Language Sciences, Faculty of Brain Sciences, UCL, London, United Kingdom, (4)Research Department of Clinical, Educational and Health Psychology, University College London, London, United Kingdom, (5)Cardiff University, Cardiff, Wales

Poster Sessions

113 - Young Children, Schools

14:00 - 18:00 - Banquet Hall

- 114:00 ▶ 1 113.001 Survey of Service Provision for Young Children with ASD Across Europe. E. Salomone¹, H. McConachie², P. Warreyn³, J. Sinzig⁴, M. Noterdaeme⁵, L. Poustka⁶ and T. Charman⁷, (1)Centre for Research in Autism and Education, Institute of Education, University of London, London, United Kingdom, (2)Newcastle University, Newcastle Upon Tyne, United Kingdom, (3)Ghent University, Ghent, Belgium, (4)Department for Child & Adolescent Psychiatry, LVR-Klinik Bonn, Bonn, Germany, (5)Klinik für Kinder- und Jugendpsychiatrie und Psychotherapie, Augsburg, Germany, (6)Central Institute of Mental Health, Mannheim, Germany, (7)Centre for Research in Autism & Education, Institute of Education, London, United Kingdom
- 15:00 ▶ 2 113.002 Age at Diagnosis of Autism Spectrum Disorders: Experience of a Tertiary Care Hospital in North India. P. Malhi¹ and P. Shetty², Department of Pediatrics, Post Graduate Institute of Medical Education and Research, Chandigarh, India
- 16:00 ▶ 3 113.003 Challenges, Coping Strategies, and Unmet Needs of Families with a Child with Autism Spectrum Disorder in Goa, India. G. Divan¹, V. P. Vajaratkar², M. U. Desai³, L. Strik-Lievers⁴ and V. Patel⁵, (1)Sangath, Goa, India, (2)ARTI and PASS project, Sangath, Goa, Panjim, Goa, India, (3)Yale University, New Haven, CT, (4)Neuropsychiatria Infantile Ospedale San Paolo, Università degli Studi di Milano, Milano, Italy, (5)London School of Hygiene and Tropical Medicine, London, United Kingdom
- 14:00 4 113.004 Use of an Online Questionnaire to Explore Views of Educational Transition in the UK for Children with Autism Spectrum Disorder. S. Anderson¹, M. Murin², S. M. Staunton³, J. Hellriegel⁴, W. Mandy⁵, O. Baykaner² and D. H. Skuse³, (1)30 Guilford Street, Great Ormond Street Hospital NHS Trust, London, United Kingdom, (2)National Centre for High Functioning Autism, Department of Child & Adolescent Mental Health (DCAMH), Great Ormond Street Hospital for Children NHS Foundation Trust, London, United Kingdom, (3)Behavioural and Brain Sciences Unit, Institute of Child Health, UCL, London, United Kingdom, (4)Research Department of Clinical, Educational and Health Psychology, University College London, London, United Kingdom, (5)Division of Psychology and Language Sciences, Faculty of Brain Sciences, UCL, London, United Kingdom
- 15:00 ▶ 5 113.005 Expressed Emotion Among Indian Mothers and Fathers of Children with Autism: Cultural Variations in Parenting Approaches. R. S. Brezis¹, T. S. Weisner², N. Singhal³, M. Barua³ and T. C. Daley⁴, (1)Psychiatry and Biobehavioral Sciences, UCLA, Los Angeles, CA, (2)UCLA, Los Angeles, CA, (3)Action for Autism, New Delhi, India, (4)Westat, Durham, NC
- 16:00 ▶ 6 113.006 Understanding the Needs of Parents of Children with Autism Spectrum Disorders in India. A. Vaishampayan¹ and E. I. Blanche², (1)Therapy West Inc., Los Angeles, CA, (2)University of Southern California, Los Angeles, CA
- 14:00 ▶ 7 113.007 Effectiveness of the Early Intervention for Children with Autism Via Community-Based Health Check-Ups of Infants and Toddlers in Japan: A Preliminary Report From the Early Start Saga Model. T. Haramaki^{1,2} and T. Kuroki³, (1)Saga University, Saga, Japan, (2)United Graduate School of Child Development, Osaka University, Suita, Japan, (3)National Hospital Organization Hizen Psychiatric Center, Saga, Japan
- 15:00 ▶ 8 113.008 Being a Parent of a Child with Autism and / or Developmental Delay in Urban Ethiopia: Their Experience of Stigma, Perceived Autism Causes, Needs and Coping Strategies. D. Tilahun¹, B. Tekola², A. Fekadu¹, Y. Baheretibeb¹, C. Hanlon¹ and R. A. Hoekstra², (1)Department of Psychiatry, School of Medicine, College of Health Sciences, Addis Ababa University, Addis Ababa, Ethiopia, (2)Department of Life, Health & Chemical Sciences, The Open University, Milton Keynes, United Kingdom

- 16:00 ▶ 9 113.009 Family Experience with Early Identification of Autism in a Low-Resource, Community-Based Setting. J. Odeh¹, R. Harb¹, M. Jibril¹, J. Awad¹ and M. Elsabbagh², (1)Palestinian Happy Child Centre, Ramallah, West Bank, Palestine, (2)McGill University, Montreal, PQ, Canada
- 14:00 ▶ 10 113.010 Effectiveness of a Supported Screening in the Identification of Latino Children At Risk for ASDs. B. J. Anthony¹, M. Biel², M. Minier³, K. Linas⁴, D. Jacobstein⁴, I. Lorenzo-Hubert⁴, S. Dos Santos⁴ and R. Mendez⁴, (1)Pediatrics and Psychiatry, Georgetown University, Washington, D.C., (2)Psychiatry, Georgetown University, Washington, D.C., (3)Pediatrics, Unity Health Care, Inc, Washington, D.C., (4)Pediatrics, Georgetown University, Washington, D.C.
- 15:00 11 113.011 Using Research-Community Partnerships to Bridge the Science-Practice Gap in Children's Community Service Systems: Characterizing Studies and Collaborative Process. L. Brookman-Frazer¹, University of California, San Diego, San Diego, CA
- 16:00 12 113.012 Proximal and Distal Outcomes From Use of Research-Community Partnerships to Adapt Evidence-Based Practices for Community ASD Providers. A. Stahmer¹, Rady Children's Hospital, San Diego, San Diego, CA
- 14:00 13 113.013 Using Research-Community Partnerships to Facilitate Implementation of Effective Intervention in Classrooms Serving Students with Autism. D. S. Mandell¹, Psychiatry, Center for Mental Health Policy and Services Research, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA
- 15:00 14 113.014 A Glorious Mess: Implementing Evidence-Based Social Skills Interventions in Public School Settings. J. J. Locke¹, M. Kretzmann², C. Kasari³ and D. S. Mandell⁴, (1)Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, (2)Psychiatry, University of California Los Angeles, Los Angeles, CA, (3)University of California Los Angeles, Los Angeles, CA, (4)Psychiatry, Center for Mental Health Policy and Services Research, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA
- 16:00 15 113.015 Evidence-Based Practice in Homeschools for Children with Autism Spectrum Disorders. C. A. Simmons¹ and J. M. Campbell², (1)University of Georgia, Athens, GA, (2)University of Kentucky, Lexington, KY
- 14:00 ▶ 16 113.016 The Relevance of "Realworld Evaluation" to Autism Intervention Research. T. C. Daley¹, N. Singhal², M. Barua², T. S. Weisner³ and R. S. Brezis³, (1)Westat, Durham, NC, (2)Action for Autism, New Delhi, India, (3)UCLA, Los Angeles, CA
- 15:00 17 113.017 Effects of an Implementation Science Approach to Professional Development for Children and Youth with ASD. S. Odom¹, A. W. Cox² and M. Brock³, (1)University of North Carolina, Chapel Hill, NC, (2)Frank Porter Graham Institute, University of North Carolina - Chapel Hill, Chapel Hill, NC, (3)Vanderbilt University, Nashville, TN
- 16:00 18 113.018 Updated Review of Evidence-Based Practices for Children and Youth with Autism Spectrum Disorders. C. Wong¹ and S. Odom², (1)Frank Porter Graham Child Development Institute, University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)University of North Carolina, Chapel Hill, NC
- 14:00 19 113.019 Ameliorating Family Impacts Among Children with ASD: The Role of Health Care Quality. K. E. Zuckerman^{1,2}, O. Lindly² and C. Bethell², (1)Division of General Pediatrics, Oregon Health & Science University, Portland, OR, (2)Child & Adolescent Health Measurement Initiative, Oregon Health & Science University, Portland, OR
- 15:00 20 113.020 Knowledge Translation Strategies for Engaging Families in Biomarker Discovery. S. Prasanna¹, A. A. Yusuf¹, E. Fombonne², L. Zwaigenbaum³, S. W. Scherer⁴ and M. Elsabbagh⁵, (1)McGill University, Montreal, QC, Canada, (2)Montreal Children's Hospital, Montreal, QC, Canada, (3)Glenrose Rehabilitation Hospital, University of Alberta, Edmonton, AB, Canada, (4)University of Toronto, Toronto, ON, Canada, (5)Department of Psychiatry, McGill University, Montreal, QC, Canada
- 16:00 21 113.021 A Pilot Program to Reduce Distress During Blood Draws in Children with Autism Spectrum Disorders. J. S. Russo¹ and C. A. Cowan, Seattle Children's Hospital Autism Center, Seattle, WA
- 14:00 ▶ 22 113.022 Screening for Autism Spectrum Disorders in Medical Checkups At 36 Months Can Predict Later Adaptive Functioning in Nursery School. M. Tsujii¹, H. Ito², F. Someki², S. Nakajima², N. Mochizuki², N. Takayanagi² and W. Noda², (1)Chukyo University, Toyota, Aichi, Japan, (2)Research Center for Child Mental Development, Hamamatsu University School of Medicine, Hamamatsu, Japan
- 15:00 23 113.023 Challenges and Perceptions of Services Providers Working with Young Children with Autism Spectrum Disorder and Concurrent Problem Behaviors. M. Rivard¹ and D. Morin, Psychology, Université du Québec à Montréal, Montréal, QC, Canada
- 16:00 24 113.024 Family Relationships and Parental Stress in Only Child Versus Multiple Children Families in the Context of Autism Spectrum Disorders: A Pilot Study. L. Vismara¹ and G. S. Doneddu², (1)Department of Educational Sciences, Psychology, Philosophy, University of Cagliari, Cagliari, Italy, (2)Centro Disturbi Pervasivi dello Sviluppo Azienda Ospedaliera Brotzu, Cagliari, Italy
- 14:00 25 113.025 The Double ABCX Model of Family Adaptation in Families of Children with ASD Attending Early Intervention. J. M. Paynter¹, E. Riley¹, W. Beamish² and M. Davies², (1)AEIOU Foundation, Nathan, Australia, (2)Griffith University, Mt Gravatt, Australia
- 15:00 ▶ 26 113.026 Longitudinal Change in the Use of Services in Autism Spectrum Disorder: Understanding the Role of Child Characteristics, Family Demographics, and Parent Cognitions. M. Siller¹, N. M. Reyes², E. R. Hotez³, T. Hutman⁴ and M. Sigman⁴, (1)Psychology, Hunter College of the City University of New York, New York, NY, (2)Psychology, Virginia Tech, Blacksburg, VA, (3)Psychology, The Graduate Center of the City University of New York, New York, NY, (4)University of California, Los Angeles, Los Angeles, CA
- 16:00 ♦27 113.027 Neuromodulation with TMS Effects on Heart Rate Variability in Children with Autism. M. K. Hensley¹, E. M. Sokhadze², A. S. El-Baz³ and M. F. Casanova², (1)Bioengineering, University of Louisville, Louisville, KY, (2)Psychiatry and Behavioral Sciences, University of Louisville, Louisville, KY
- 14:00 28 113.028 Teacher Burnout Predicts Child Goal Attainment Outcomes. L. A. Ruble¹ and J. H. H. McGrew², (1)University of Kentucky, Lexington, KY, (2)Psychology, Indiana University - Purdue University Indianapolis, Indianapolis, IN
- 15:00 29 113.029 Training for Educators of Students with Autism Spectrum Disorders. A. P. Juárez¹, C. M. Taylor¹, L. Garrett¹, W. A. Loring², K. H. Frank¹, E. Carter², M. Brock², H. Huber², E. Wallace¹, A. Stainbrook¹, S. Blumberg¹ and Z. Warren¹, (1)Vanderbilt Kennedy Center, Nashville, TN, (2)Vanderbilt University, Nashville, TN
- 16:00 30 113.030 "Read with Me!": The Effect of Dialogic Reading On Early Literacy Outcomes for Preschoolers with Autism. V. Fleury¹, Frank Porter Graham Child Development Institute, University of North Carolina at Chapel Hill, Chapel Hill, NC
- 14:00 31 113.031 The Development of Early Literacy Skills Among Young Children with ASD: Predictors of Change Over Time Across Literacy Skill Domains. J. Blacher¹, A. Eisenhower², L. A. Tipton², S. Kaplan-Levy⁴ and J. M. Wilson⁴, (1)University of California - Riverside, Los Angeles, CA, (2)Psychology, University of Massachusetts Boston, Boston, MA, (3)University of California, Riverside, Anaheim, CA, (4)University of Massachusetts Boston, Boston, MA

Poster Sessions
114 - Neuropathology
 14:00 - 18:00 - Banquet Hall

- 14:00 32 114.032 Genetics and Neurodevelopment of Agenesis of the Corpus Callosum: Insights for Autism. E. Sherr¹, Neurology, UCSF, San Francisco, CA
- 15:00 33 114.033 The Primary Olfactory Cortex in Autism Spectrum Disorder. D. A. Menassa¹, C. Sloan, C. Emin and S. Chance, University of Oxford, Oxford, United Kingdom
- 16:00 34 114.034 Autism BRAIN Stereology Project – 12 YEARS and Counting. J. A. Pickett¹, P. R. Hof² and J. Wegiel³, (1)Autism Tissue Program, Autism Speaks, San Diego, CA, (2)Neuroscience, Mount Sinai School of Medicine, New York, NY, (3)New York State Institute for Basic Research, Staten Island, NY
- 14:00 35 114.035 Increased mGluR1 mRNA Subunit Levels in Purkinje Cells in the Crus II Cerebellar Hemisphere but Not Vermis in Autism: An In Situ Hybridization Histochemical Study. G. J. Blatt¹, A. P. Piras and J. J. Soghomonian, Anatomy and Neurobiology, Boston University School of Medicine, Boston, MA
- 15:00 36 114.036 Age-Related Changes in Neuronal Populations in the Amygdala in Autism. N. Barger¹, D. G. Amaral² and C. M. Schumann¹, (1)Psychiatry, UC Davis M.I.N.D. Institute, Sacramento, CA, (2)M.I.N.D. Institute and Department of Psychiatry and Behavioral Sciences, University of California Davis Medical Center, Sacramento, CA
- 16:00 ▶ 37 114.037 Antibodies Reacting to Brain Tissue in Basque Spanish Children with Autism Spectrum Disorder and Their Mothers. C. C. Rossi¹, J. Fuentes², J. Van de Water³ and D. G. Amaral⁴, (1)University of Colorado Anschutz Medical Campus, Aurora, CO, (2)Políclinica Gipuzkoa, San Sebastian, Spain, (3)The M.I.N.D. Institute, University of California, Davis, Sacramento, CA, (4)M.I.N.D. Institute and Department of Psychiatry and Behavioral Sciences, University of California Davis Medical Center, Sacramento, CA
- 14:00 38 114.038 Abnormalities in Raphe Nuclei of Autistic 5 to 15 Year Old Subjects. J. Wegiel¹, E. C. Azmitia², T. Wisniewski³ and P. Banerjee¹, (1)The College of Staten Island (CUNY), Staten Island, NY, (2)New York University, New York, NY, (3)Developmental Neurobiology, New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY
- 15:00 39 114.039 Global Pattern of Delayed and Desynchronized Neuron Growth in the Brain of Autistic Subjects. J. Wegiel¹, M. J. Flory², I. Kuchna¹, K. Nowicki¹, H. Imaki¹, J. Wegiel¹, I. L. L. Cohen², E. London², T. Wisniewski¹ and W. T. Brown³, (1)Developmental Neurobiology, New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (2)Psychology, NYS Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (3)Human Genetics, NYS Institute for Basic Research in Developmental Disabilities, Staten Island, NY
- 16:00 40 114.040 Lack of Focalization of Distant Connectivity with Attentional Engagement in ASD Children. C. J. Vaidya^{1,2}, X. You³, M. Norr³, E. R. Murphy³, W. D. Gaillard⁴ and L. Kenworthy⁵, (1)Psychology, Georgetown University, Washington, D.C., (2)Children's Research Institute, Children's National Medical Center, Washington, D.C., (3)Psychology, Georgetown University, Washington, D.C., (4)Children's National Medical Center, Washington, D.C., (5)Children's National Medical Center, Rockville, MD

Poster Sessions
115 - Brain Imaging – Structural
 14:00 - 18:00 - Banquet Hall

- 14:00 41 115.041 Abnormalities in Inter-Hemispheric Cortical Thickness Correlations in ASD. B. Khundrakpam¹, J. D. Lewis¹, R. J. Theilmann², J. Townsend³ and A. C. Evans¹, (1)Montreal Neurological Institute, McGill University, Montreal, QC, Canada, (2)Radiology, University of California, San Diego, La Jolla, CA, (3)University of California, San Diego, La Jolla, CA
- 15:00 42 115.042 Atypical Rightward Lateralization of the Corpus Callosum Is Present in Males but Not Females with Autism. D. L. Floris¹, L. R. Chura², R. Holt¹, J. Suckling³, S. Baron-Cohen⁴ and M. D. Spencer⁵, (1)Psychiatry, Autism Research Centre, Cambridge, United Kingdom, (2)Cambridge University, Cambridge, United Kingdom, (3)University of Cambridge, Cambridge, United Kingdom, (4)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (5)University of Cambridge, Cambridge, England, United Kingdom
- 16:00 ♦43 115.043 Shared Versus Specific Voxel-Wise Volumetric Characteristics in a Pair of Monozygotic Twins Discordant for ASD Traits. K. Mevel¹, P. Fransson², P. Lichtenstein³, H. Anckarsäter⁴, H. Forsberg⁵ and S. Bölte¹, (1)Department of Women's and Children's Health, Astrid Lindgren Children's Hospital, Q2:07, Center of Neurodevelopmental Disorders (KIND), Karolinska Institutet, Stockholm, Sweden, (2)Department of Clinical Neuroscience, MR Research Center N8, Karolinska University Hospital, Stockholm, Sweden, (3)Department of Medical Epidemiology and Biostatistics, Karolinska Institutet, Stockholm, Sweden, (4)Department of Forensic Psychiatry, Institute of Neuroscience and Physiology, Sahlgren's Academy, University of Gothenburg, Gothenburg, Sweden, (5)Neuropediatric Research Unit, Department of Women's & Children's Health, Karolinska Institutet, Stockholm, Sweden
- 14:00 44 115.044 Abnormal Functional Connectivity Is Associated with Disrupted Organisation of White Matter in Autism. J. McGrath¹, K. A. Johnson², H. Garavan³, E. O'Hanlon⁴, A. Leemans⁵ and L. Gallagher⁶, (1)Trinity College Dublin, Dublin, Ireland, (2)University of Melbourne, Victoria, Australia, (3)University of Vermont, Burlington, VT, (4)Royal College of Surgeons in Ireland, Dublin, Ireland, (5)Image Sciences Institute, University Medical Center Utrecht, Utrecht, Netherlands, (6)Department of Psychiatry, Trinity College Dublin, Dublin, Ireland
- 15:00 45 115.045 Neuroimaging Findings in 16p11.2 Deletion and Duplication Carriers. P. Bukshpun¹, N. Pojman¹, O. Glenn², J. V. Hunter³, P. Mukherjee² and E. Sherr¹, (1)Neurology, UCSF, San Francisco, CA, (2)Radiology, UCSF, San Francisco, CA, (3)Baylor School of Medicine, Houston, TX
- 16:00 46 115.046 Longitudinal Brain Volume Growth Curves in Autism Spectrum Disorder Ages 3 to 25 Years. N. Lange^{1,2}, B. G. Travers³, B. A. Zielinski⁴, J. A. Nielsen⁵, M. Prigge⁶, A. L. Froehlich⁷, T. Abildskov⁷, E. D. Bigler⁸, A. L. Alexander⁹ and J. E. Lainhart⁵, (1)Harvard University Schools of Medicine & Public Health, Boston, MA, (2)Neurostatistics Laboratory, MRC 314, McLean Hospital, Belmont, MA, (3)Waisman Center University of Wisconsin-Madison, Madison, WI, (4)Pediatrics and Neurology, University of Utah, Salt Lake City, UT, (5)University of Utah, Salt Lake City, UT, (6)Psychiatry, University of Utah, Salt Lake City, UT, (7)Psychology, Brigham Young University, Provo, UT, (8)Brigham Young University, Provo, UT, (9)University of Wisconsin, Madison, WI
- 14:00 ▶ 47 115.047 Diffusion Tensor Imaging and Volumetry of Autistic Children in India. Z. A. Assis¹, S. Srinath², J. Saini², A. K. Gupta², P. R. Naidu³, R. D. Bharath² and U. Rao², (1)Dept of Radiology, Shri Sathya Sai Institute of Higher Medical Sciences, Bangalore, India, (2)NIMHANS, Bangalore, India, (3)Bangalore, India

- 15:00 48 115.048 White Matter Connectivity Predicts Autism Spectrum Disorder Symptom Severity in High-Functioning Young Adults. C. R. Gibbard¹, J. Ren², K. K. Seunarine¹, J. D. Clayden¹, D. H. Skuse³ and C. A. Clark¹, (1)Imaging and Biophysics Unit, UCL Institute of Child Health, London, United Kingdom, (2)Behavioural and Brain Sciences Unit, UCL Institute of Child Health, London, United Kingdom, (3)Behavioural and Brain Sciences Unit, Institute of Child Health, UCL, London, United Kingdom
- 16:00 49 115.049 Functional and Structural Connectivity of Frontostriatal Circuitry in ASD. S. Delmonte^{1,2}, J. H. Balsters¹, E. O'Hanlon³ and L. Gallagher², (1)Trinity College Institute of Neuroscience, Trinity College Dublin, Dublin, Ireland, (2)Department of Psychiatry, Trinity College Dublin, Dublin, Ireland, (3)Royal College of Surgeons in Ireland, Dublin, Ireland
- 14:00 50 115.050 Developmental Differences in the Uncinate Fasciculus Vary by Sex in Autism Spectrum Disorders. S. C. Huang¹, G. J. Pauley¹, T. L. Richards², N. M. Corrigan², D. W. Shaw², A. A. Artru³, A. Estes⁴, S. Dager² and N. M. Kleinmans², (1)University of Washington, Seattle, WA, (2)Department of Radiology, University of Washington, Seattle, WA, (3)Dept of Anesthesiology, University of Washington, Seattle, WA, (4)Speech and Hearing Sciences, University of Washington, Seattle, WA
- 15:00 51 115.051 Connectivity and Network Efficiency in ASD. J. D. Lewis¹, R. J. Theilmann², J. Townsend³ and A. C. Evans¹, (1)Montreal Neurological Institute, McGill University, Montreal, QC, Canada, (2)Radiology, University of California, San Diego, La Jolla, CA, (3)University of California, San Diego, La Jolla, CA
- 16:00 52 115.052 Concordance of White Matter and GREY Matter Abnormalities in Autism Spectrum Disorders. F. Bianco¹, F. Cauda^{2,3}, T. Costa³, S. Palermo⁴, M. Diano³, S. Duca³, G. Geminiani⁴ and R. Keller⁵, (1)Adult Autism Center, ASL TO2, Turin, Italy, Gassino Torinese (TO), Italy, (2)University of Turin, Turin, Italy, (3)CCS fMRI, Koelliker Hospital, Turin, Italy, (4)Department of Psychology, University of Turin, Turin, Italy, (5)Adult Autism Center, ASL TO2, Turin, Italy
- 14:00 53 115.053 Children with SLOS Demonstrate a Different Pattern Brain Microstructure Than Autism and Rett Syndrome. R. W. Lee¹, A. Diaz-Stransky^{2,3}, E. S. Jung², A. Thurm⁴ and F. D. Porter⁵, (1)Neurology and Developmental Medicine, Kennedy Krieger Institute, Baltimore, MD, (2)Psychiatry, Kennedy Krieger Institute, Baltimore, MD, (3)Behavioral Sciences and Psychiatry, Johns Hopkins University School of Medicine, Baltimore, MD, (4)National Institute of Mental Health, Bethesda, MD, (5)Program in Developmental Endocrinology and Genetics, National Institute of Child Health and Human Development, Rockville, MD
- 15:00 54 115.054 Insular Volume Reduction Is a Common Feature Between Adolescents with High-Functioning Autism and First Episodes of Psychosis. M. Parellada¹, L. Pina-Camacho² and J. Janssen³, (1)Child and Adolescent Psychiatry Department, Instituto de Investigación Sanitaria Gregorio Marañón, IISGM, Hospital General Universitario Gregorio Marañón, CIBERSAM, Madrid, Spain, (2)Child and Adolescent Psychiatry Department, Instituto de Investigación Sanitaria Gregorio Marañón, IISGM, Hospital General Universitario Gregorio Marañón, CIBERSAM, Madrid, Spain, (3)Hospital General Universitario Gregorio Marañón, Imaging Laboratory, Madrid, Spain
- 16:00 55 115.055 White Matter Abnormalities in HF-ASD and Their Unaffected Siblings: A Diffusion Tensor Imaging Study. R. Calvo Escalona^{1,2}, M. Rosa¹, A. Calvo Boixet³, O. Puig Navarro^{1,2} and L. Lázaro García¹, (1)Child and Adolescent Psychiatry and Psychology Department, Hospital Clinic of Barcelona, Barcelona, Spain, (2)CIBERSAM, Barcelona, Spain, (3)IDIBAPS, Barcelona, Spain
- 14:00 56 115.056 Functional Connectivity MRI Lateralization in Autism Spectrum Disorder. J. A. Nielsen¹, J. S. Anderson¹, M. A. Ferguson², A. L. Froehlich³, J. R. Cooperrider¹, A. Cariello⁴, P. T. Fletcher¹, B. A. Zielinski⁵, E. D. Bigler³, A. L. Alexander⁶ and J. E. Lainhart¹, (1)University of Utah, Salt Lake City, UT, (2)University of Utah School of Medicine, Salt Lake City, UT, (3)Psychiatry, University of Utah, Salt Lake City, UT, (4)Utah Autism Research Project, Salt Lake City, UT, (5)Pediatrics and Neurology, University of Utah, Salt Lake City, UT, (6)University of Wisconsin, Madison, WI
- 15:00 57 115.057 Evidence for Selective Damage to Cognitive Cortico-Cerebellar Circuits in Autism Spectrum Disorder. J. H. Balsters^{1,2}, S. Delmonte³, N. Wenderoth¹ and L. Gallagher⁴, (1)ETH Zurich, Zurich, Switzerland, (2)Trinity College Institute of Neuroscience, Trinity College Dublin, Dublin, Ireland, (3)Psychiatry, Trinity College Dublin, Dublin, Ireland, (4)Department of Psychiatry, Trinity College Dublin, Dublin, Ireland
- 16:00 58 115.058 Reduced Amygdala Volumes in Adolescents with Autism Spectrum Disorders Parallels Negative Autistic Trait-Amygdala Correlations in Typically Developing Adolescent Males. G. Wallace¹, B. Robustelli¹, N. Dankner¹, L. Kenworthy², J. Giedd¹ and A. Martin¹, (1)National Institute of Mental Health, Bethesda, MD, (2)Children's National Medical Center, Rockville, MD
- 14:00 59 115.059 DTI in the Cerebral Cortex Correlates with Axon Bundle Organisation: Investigation of Regional Differences in Autism. R. McKavanagh¹, M. Jenkinson, C. Emin, K. Miller and S. Chance, University of Oxford, Oxford, United Kingdom
- 15:00 60 115.060 Compared to What? Early Brain Overgrowth in Autism and the Perils of Population Norms. A. Raznahan¹, G. L. Wallace¹, L. Antezena¹, A. Thurm¹, D. Greenstein¹, R. Lenroot², S. J. Spence³, M. Gozzi¹, A. Martin¹, S. E. Swedo¹ and J. Giedd¹, (1)National Institute of Mental Health, Bethesda, MD, (2)University of New South Wales, Sydney, Australia, (3)Children's Hospital Boston, Boston, MA
- 16:00 61 115.061 Clustering Multiple Mouse Models Related to Autism Based on Neuroanatomy. J. Ellegood¹, R. M. Henkelman and J. P. Lerch, Mouse Imaging Centre, The Hospital for Sick Children, Toronto, ON, Canada
- 14:00 62 115.062 Cavum Septum Pellucidum and Cavum Vergae in Macrocephaly and Autism Spectrum Condition. J. R. Cooperrider^{1,2}, J. E. Lainhart³, M. D. Prigge¹, A. L. Froehlich¹ and E. D. Bigler^{1,4}, (1)Psychiatry, University of Utah, Salt Lake City, UT, (2)Interdepartmental Program in Neuroscience, University of Utah, Salt Lake City, UT, (3)Psychiatry, Waisman Center, University of Wisconsin-Madison, Madison, WI, (4)Psychology, Neuroscience Center, Brigham Young University, Provo, UT
- 15:00 63 115.063 Decreased Cortical Thickness in Autism Spectrum Disorder: A Large-Sample Investigation Using Surface-Based Morphometry. D. Yang, S. K. Mitchell, C. Cordeaux, I. Y. Murphy, K. A. Pelphrey and R. J. Joo¹, Child Study Center, Yale University, New Haven, CT
- 16:00 64 115.064 Aberrant Right Temporo-Thalamic Connectivity in ASD, An fMRI and Graph Theory Study. A. Nair¹, C. L. Keown², M. Datko³, A. J. Khan² and R. A. Müller¹, (1)SDSU / UCSD Joint Doctoral Program in Clinical Psychology, San Diego, CA, (2)San Diego State University, San Diego, CA, (3)University of California San Diego, La Jolla, CA
- 14:00 65 115.065 Cortical Network Flexibility During Facial and Emotional Processing: The Effect of Beta-Adrenergic Antagonists. J. P. Hegarty II¹, B. J. Ferguson², R. M. Zamzow³, S. E. Christ⁴, M. O. Mazurek⁵ and D. Q. Beversdorf⁶, (1)Center for Translational Neuroscience, University of Missouri, Columbia, MO, (2)University of Missouri-Columbia, Columbia, MO, (3)Interdisciplinary Neuroscience Program, University of Missouri-Columbia, Columbia, MO, (4)Psychological Sciences, University of Missouri, Columbia, MO, (5)University of Missouri, Columbia, MO, (6)Radiology, Neurology, & Psychological Sciences, University of Missouri, Columbia, MO

- 15:00 66 115.066 Incidental Findings On Neuroimaging for Asymptomatic Children with Autism Spectrum Disorders. S. E. Levy¹, K. Shekdar², A. N. Browne³, C. M. DeLussey⁴, S. Qasimieh⁵, P. Prabhakar¹, T. P. Roberts⁵ and R. T. Schultz³, (1)Center for Autism Research, Children's Hospital of Philadelphia / University of Pennsylvania, Philadelphia, PA, (2)Radiology, CHOP, Philadelphia, PA, (3)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (4)Center for Autism Research, CHOP, Philadelphia, PA, (5)Radiology, Children's Hospital of Philadelphia, Philadelphia, PA, (6)34th St and Civic Center Blvd., Children's Hospital of Philadelphia, Philadelphia, PA
- 16:00 67 115.067 Resting State Functional Network Organization and Topological Properties in Autism Spectrum Disorder. S. E. Christ¹, R. M. Zamzow² and J. D. Johnson¹, (1)Psychological Sciences, University of Missouri, Columbia, MO, (2)Interdisciplinary Neuroscience Program, University of Missouri-Columbia, Columbia, MO
- 14:00 68 115.068 Brain Morphometry Abnormalities in Patients with Autism Spectrum Disorders and Schizophrenia: Same or Different? M. Assaf¹, A. Ahmadi², C. Hyatt², C. A. Berwise² and G. Pearlson³, (1)200 Retreat Ave., Institute of Living, Hartford Hospital / Yale University, Hartford, CT, (2)Institute of Living / Olin Neuropsychiatry Research Center, Hartford Hospital, Hartford, CT, (3)Institute of Living, Hartford Hospital / Yale University, Hartford, CT
- 15:00 69 115.069 Neuroanatomical Basis of Autism in Girls. K. Supekar¹, L. Uddin and V. Menon, Stanford University, Stanford, CA
- 16:00 70 115.070 Short Range Over-Connectivity and Long Range Under-Connectivity in the Resting State Network in Autism Spectrum Disorders. K. A. R. Doyle-Thomas¹, W. Lee², N. E. Foster³, A. Tryfon³, T. Ouimet⁴, K. L. Hyde⁵, A. C. Evans⁶, L. Zwaigenbaum⁷, E. Anagnostou⁸ and NeuroDevNet ASD Imaging Group⁹, (1)Bloorview Research Institute, Toronto, ON, Canada, (2)Hospital for Sick Children, Toronto, ON, Canada, (3)McGill University, Montreal, QC, Canada, (4)Montreal Children's Hospital Research Institute, Montreal, QC, Canada, (5)Montreal Neurological Institute, McGill University, Montréal, QC, Canada, (6)Montreal Neurological Institute, McGill University, Montreal, QC, Canada, (7)Glenrose Rehabilitation Hospital, University of Alberta, Edmonton, AB, Canada, (8)Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (9)http://www.neurodevnet.ca/research/asd, Vancouver, BC, Canada
- 14:00 71 115.071 A Spectrum of Cortical Surface Complexity in Autism, Dyslexia, and Controls As Measured by Spherical Harmonics. E. L. Williams¹, B. A. Dombroski², M. Nitzken³, A. S. El-Baz³, A. E. Switala⁴ and M. F. Casanova⁴, (1)University of Louisville, Louisville, KY, (2)University of Louisville School of Medicine, Louisville, KY, (3)Bioengineering, University of Louisville, Louisville, KY, (4)Psychiatry and Behavioral Sciences, University of Louisville, Louisville, KY
- 15:00 72 115.072 Gray Matter Network Property Differences in Children with Autism Spectrum Disorder. N. E. Foster^{1,2}, K. A. R. Doyle-Thomas³, A. Tryfon^{1,4}, T. Ouimet^{1,4}, A. C. Evans¹, E. Anagnostou³, L. Zwaigenbaum⁵, K. L. Hyde^{1,4} and NeuroDevNet ASD Imaging Group⁶, (1)Montreal Neurological Institute, Montreal, QC, Canada, (2)Faculty of Medicine, Montreal Children's Hospital, McGill University, Montreal, QC, Canada, (3)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (4)Faculty of Medicine, Montreal Children's Hospital, McGill University, Montreal, QC, Canada, (5)Glenrose Rehabilitation Hospital, University of Alberta, Edmonton, AB, Canada, (6)http://www.neurodevnet.ca/research/asd, Vancouver, BC, Canada
- 16:00 73 115.073 Longitudinal Age-Related Changes in Cortical Thickness From Childhood to Adulthood in Autism. M. D. Prigge¹, J. A. Nielsen¹, E. D. Bigler², T. Abildskov³, A. L. Froehlich², A. L. Alexander⁴, N. Lange⁵, B. A. Zielinski⁶ and J. E. Lainhart¹, (1)University of Utah, Salt Lake City, UT, (2)Psychiatry, University of Utah, Salt Lake City, UT, (3)Psychology, Brigham Young University, Provo, UT, (4)University of Wisconsin, Madison, WI, (5)McLean Hospital, Belmont, MA, (6)Pediatrics and Neurology, University of Utah, Salt Lake City, UT

- 14:00 74 115.074 Neuroanatomical Differences Between ASD Patients and Controls in the Abide Cohort. R. Toro¹, R. Delorme², F. Amsellem³, G. Huguet¹ and T. Bourgeron⁴, (1)Institut Pasteur, Paris, France, (2)Hôpital Robert Debré, Paris, France, (3)Hôpital Robert Debré, Paris, France, (4)Institut Pasteur CNRS URA 2182, Paris Diderot University, Paris, France
- 15:00 75 115.075 Regional Differences in Gray Matter Structure in Children with Autism Spectrum Disorder. N. E. Foster^{1,2}, K. A. R. Doyle-Thomas³, A. Tryfon^{1,2}, T. Ouimet^{1,2}, A. C. Evans², E. Anagnostou³, L. Zwaigenbaum⁴, K. L. Hyde^{1,2} and NeuroDevNet ASD Imaging Group⁵, (1)Faculty of Medicine, Montreal Children's Hospital, McGill University, Montreal, QC, Canada, (2)Montreal Neurological Institute, Montreal, QC, Canada, (3)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (4)Glenrose Rehabilitation Hospital, University of Alberta, Edmonton, AB, Canada, (5)http://www.neurodevnet.ca/research/asd, Vancouver, BC, Canada

Poster Sessions
116 - Adults, Lifespan, Methods
 14:00 - 18:00 - Banquet Hall

- 14:00 76 116.076 A Longitudinal Examination of Change in Vocational Outcomes for Adults with ASD. J. L. Taylor¹ and M. M. Seltzer², (1)Vanderbilt Kennedy Center, Nashville, TN, (2)Waisman Center, University of Wisconsin-Madison, Madison, WI
- 15:00 77 116.077 Longitudinal Outcomes in Autism: Community Inclusion and Living Skills in Adulthood. K. M. Gray¹, C. Keating², J. R. Taffe¹, A. V. Brereton², S. L. Einfeld³ and B. J. Tonge¹, (1)Centre for Developmental Psychiatry and Psychology, School of Psychology & Psychiatry, Monash University, Clayton VIC, Australia, (2)Centre for Developmental Psychiatry and Psychology, School of Psychology & Psychiatry, Monash University, Clayton, Australia, (3)Faculty of Health Sciences and Brain and Mind Research Institute, University of Sydney, Camperdown NSW, Australia
- 16:00 78 116.078 ASD in the Hospital: Making It Easier for Children, Families, and Staff. J. Miller¹, T. P. Gabrielsen², K. A. Bouser³, J. Zell⁴, K. Hart-Livingston⁴, M. N. Davignon⁵ and E. Friedlaender⁶, (1)Center for Autism Research, Philadelphia, PA, (2)Children's Hospital of Philadelphia, Center for Autism Research, Philadelphia, PA, (3)The Children's Hospital of Philadelphia, Philadelphia, PA, (4)Children's Hospital of Philadelphia, Philadelphia, PA, (5)Section of Child Development and Behavior, Children's Hospital of Philadelphia, Philadelphia, PA, (6)Division of Emergency Medicine, Children's Hospital of Philadelphia, Philadelphia, PA
- 14:00 79 116.079 Facilitators and Barriers to Care of Children with Autism Spectrum Disorders Undergoing Procedures. M. N. Davignon¹, E. Friedlaender² and S. E. Levy³, (1)Section of Child Development and Behavior, Children's Hospital of Philadelphia, Philadelphia, PA, (2)Division of Emergency Medicine, Children's Hospital of Philadelphia, Philadelphia, PA, (3)Division of Child Development, Children's Hospital of Philadelphia, Philadelphia, PA
- 15:00 80 116.080 Helping Families Affected by Autism Fly. W. Ross¹, Einstein, Wynewood, PA
- 16:00 81 116.081 Evaluating and Enhancing Driving Skills of Individuals with Autism Spectrum Disorders. D. J. Cox¹, S. M. Cox², R. J. Johnson¹, N. B. Cox², J. L. Wade², A. E. Lambert¹ and R. E. Reeve², (1)Center for Behavioral Medicine Research, University of Virginia, Charlottesville, VA, (2)Clinical and School Psychology, University of Virginia, Charlottesville, VA

- 14:00 ▶ 82 116.082 Autism Comes to the Hospital: Experiences of Hospital Care From the Perspectives of Children and Adolescents with Autism Spectrum Disorders, Their Parents, and Healthcare Providers. B. Muskat¹, D. Nicholas², W. Roberts³, K. P. Stoddart⁴, L. Zwaigenbaum⁵ and P. Burnham Riosa¹, (1)The Hospital for Sick Children, Toronto, ON, Canada, (2)University of Calgary, Edmonton, AB, Canada, (3)University of Toronto, Toronto, ON, Canada, (4)The Redpath Centre, Toronto, ON, Canada, (5)Glenrose Rehabilitation Hospital, University of Alberta, Edmonton, AB, Canada
- 15:00 83 116.083 Transition to Mainstream Secondary School and Special Challenges for Children with an Autism Spectrum Disorder (ASD): Considerations Beyond the Triad of Impairments. M. Murin¹, J. Hellriegel^{2,3}, S. M. Staunton⁴, O. Baykaner⁵, S. Anderson⁶, W. Mandy⁶ and D. H. Skuse⁴, (1)Social Communication Disorder Clinic, Great Ormond Street Hospital, London, United Kingdom, (2)Great Ormond Street Hospital for Children, London, United Kingdom, (3)Research Department of Clinical, Educational and Health Psychology, University College London, London, United Kingdom, (4)Behavioural and Brain Sciences Unit, Institute of Child Health, UCL, London, United Kingdom, (5)Social Communication Disorders Clinic, Great Ormond Street Hospital for Children, London, United Kingdom, (6)Division of Psychology and Language Sciences, Faculty of Brain Sciences, UCL, London, United Kingdom
- 16:00 84 116.084 A Systematic Review Examining ASD Vocational Practices, Supports and Models. D. Nicholas¹, University of Calgary, Edmonton, AB, Canada
- 14:00 85 116.085 Transportation Research and Policy Review for ASD Individuals Across Canada: A Lifespan Perspective. J. H. Emery¹, C. Dudley², D. Nicholas³ and M. Clarke⁴, (1)Economics, University of Calgary, Calgary, AB, Canada, (2)University of Calgary, Calgary, T2N 1C5, AB, Canada, (3)Faculty of Social Work, University of Calgary, Calgary, AB, Canada, (4)Sinneave Family Foundation, Calgary, AB, Canada
- 15:00 86 116.086 A Transition Support Program for Young Adults with Autism Spectrum Disorders. K. White¹, T. D. Flanagan¹ and A. Nadig², (1)Educational and Counselling Psychology, McGill University, Montreal, QC, Canada, (2)School of Communication Sciences and Disorders, McGill University, Montreal, QC, Canada
- 16:00 87 116.087 Coming of Age: Examining the Transition From Child to Adult Services for Persons with Autism. M. Milen¹ and D. Nicholas², (1)Faculty of Social Work, University of Calgary, Edmonton, AB, Canada, (2)University of Calgary, Edmonton, AB, Canada
- 14:00 88 116.088 The Impact of Autism Services On Mothers' Workforce and Leisure Participation and Wellbeing. S. Hodgetts¹, D. McConnell², L. Zwaigenbaum³ and D. Nicholas⁴, (1)University of Alberta, Edmonton, AB, Canada, (2)Department of Occupational Therapy, University of Alberta, Edmonton, AB, Canada, (3)Glenrose Rehabilitation Hospital, University of Alberta, Edmonton, AB, Canada, (4)Faculty of Social Work, University of Calgary, Calgary, AB, Canada
- 15:00 89 116.089 Service Needs of Adults with Autism. D. Johnson¹, A. Singer¹, C. Anderson², P. A. Law³ and J. K. Law³, (1)Autism Science Foundation, New York, NY, (2)Towson University, Towson, MD, (3)Kennedy Krieger Institute, Baltimore, MD
- 16:00 90 116.090 An Assessment of Needs to Guide a Transition Support Program for Young Adults with ASDs. T. Flanagan¹, A. Nadig² and K. White¹, (1)Educational and Counselling Psychology, McGill University, Montreal, QC, Canada, (2)School of Communication Sciences and Disorders, McGill University, Montreal, QC, Canada
- 14:00 91 116.091 The Efficacy of Person-Centered Planning for Young Adults with ASD in Transition. M. Magnee¹ and J. P. Teunisse^{1,2,3}, (1)Hogeschool van Arnhem en Nijmegen, Nijmegen, Netherlands, (2)Research and Development, Dr. Leo Kannerhuis, Doorwerth, Netherlands, (3)Medical Psychology, Radboud University Nijmegen Medical Centre, Nijmegen, Netherlands
- 15:00 92 116.092 Crisis in Adults with Autism Spectrum Disorders: Antecedents and Outcomes. C. A. McMorris¹, J. K. Lake² and Y. Lunsky², (1)York University, Toronto, ON, Canada, (2)Centre for Addiction and Mental Health, Toronto, ON, Canada
- 16:00 ▶ 93 116.093 Findings from the INSAR Special Interest Group: Global Knowledge Translation for Research on Early Identification and Intervention in Autism. A. A. Yusuf¹, S. Prasanna¹, L. G. Anthony², T. Charman³, B. A. Malow⁴, C. E. Rice⁵, A. Shih⁶, H. Tager-Flusberg⁷, P. de Vries⁸ and M. Elsabbagh⁹, (1)McGill University, Montreal, QC, Canada, (2)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (3)Centre for Research in Autism & Education, Institute of Education, London, United Kingdom, (4)Vanderbilt University, Nashville, TN, (5)National Center on Birth Defects and Developmental Disabilities, Atlanta, GA, (6)Autism Speaks, New York, NY, (7)Boston University, Boston, MA, (8)University of Cape Town, Cape Town, South Africa, (9)Department of Psychiatry, McGill University, Montreal, QC, Canada
- 14:00 ▶ 94 116.094 Cultural Considerations in Autism: A Comparison of Autism Experiences in Kerala, India and Atlanta, GA USA. J. C. Sarrett¹, Institute of Liberal Arts, Emory University, Atlanta, GA
- 15:00 95 116.095 An Autism Spectrum Disorders (ASD) Database: Regional Pilot for a National ASD Database for Wales, UK. S. R. Leekam¹, D. Wimpory² and B. Nicholas³, (1)Park Place, Cardiff University, Cardiff, United Kingdom, (2)School of Psychology, Bangor University and Betsi Cadwaladr University Health Board, Bangor, United Kingdom, (3)School of Psychology, Bangor University, Bangor, United Kingdom
- 16:00 96 116.096 Re-Mapping Autism Research in the UK: Identifying Priorities for the Decade Ahead. T. Charman¹, E. Pellicano² and A. P. Dinsmore¹, (1)Centre for Research in Autism & Education, Institute of Education, London, United Kingdom, (2)Centre for Research in Autism & Education, London, United Kingdom
- 14:00 97 116.097 A UK Survey of Families' Opinions of Health Services and Treatment Priorities. S. B. Wallace¹, Science, Autistica, London, United Kingdom
- 15:00 ❖98 116.098 Challenges Facing Educators of Children with Autism in Oman From Educators' Perspective: A Qualitative Study. Y. M. Alfarsi¹, M. F. Al-Said², M. M. Al-Khaduri³, M. Al-Sharbaty⁴, M. I. Waly⁵, M. Al-Shafae⁶, A. Ouhtit³ and S. al-Adwai³, (1)Family Medicine & Public Health, Sultan Qaboos University, Al-Khoud, Oman, (2)Sultan Qaboos university, Muscat, Oman, (3)Sultan Qaboos University, Muscat, Oman, (4)Sultan Qaboos University, Muscat-Al-Khod, Oman, (5)S.Q.U., Muscat, Oman, (6)squ, Muscat, Oman
- 16:00 ▶ 99 116.099 Predictors of Early Intervention Service Utilization Among Children with Autism. E. R. Hotez^{1,2}, M. Siller³, N. M. Reyes⁴, T. Hutman⁵ and M. Sigman⁵, (1)Psychology, The Graduate Center of the City University of New York, New York, NY, (2)Psychology, Hunter College, New York, NY, (3)Psychology, Hunter College of the City University of New York, New York, NY, (4)Psychology, Virginia Tech, Blacksburg, VA, (5)University of California, Los Angeles, Los Angeles, CA

- 14:00 100 116.100 Using Evidence-Based Diagnostic Practices to Identify Autism Spectrum Disorders in Youth Served in Community Mental Health Settings. N. Akshoomoff^{1,2}, N. Stadnick³, L. Brookman-Frazee⁴, K. Nguyen Williams⁵ and G. Cerda⁶, (1)Psychiatry, University of California, San Diego, La Jolla, CA, (2)Autism Discovery Institute, Rady Children's Hospital, San Diego, CA, (3)SDSU / UCSD Joint Doctoral Program in Clinical Psychology, San Diego, CA, (4)University of California, San Diego, San Diego, CA, (5)Rady Children's Outpatient Psychiatry, San Diego, San Diego, CA, (6)University of California, San Diego, La Jolla, CA
- 15:00 ▶ 101 116.101 Reducing Disparities: Increasing Efficacy of Immigrant Latino Families of Children with ASD. S. Magana¹, R. R. Paradiso de Sayu² and M. Garcia³, (1)Disability and Human Development, University of Illinois at Chicago, Chicago, IL, (2)University of Wisconsin - Madison, Fitchburg, WI, (3)Occupational Therapy, University of Illinois at Chicago, Chicago, IL
- 16:00 102 116.102 Costs of Care and Canadian Policy Implications: A Lifespan Perspective of Cost of Care for Individuals Living with Autism Spectrum Disorder. J. H. Emery¹, C. Dudley², D. Nicholas³ and M. Clarke⁴, (1)Economics, University of Calgary, Calgary, AB, Canada, (2)University of Calgary, Calgary, AB, Canada, (3)Faculty of Social Work, University of Calgary, Calgary, AB, Canada, (4)Sinneave Family Foundation, Calgary, AB, Canada
- 14:00 103 116.103 Autism and Multidisciplinary Teamwork Through the Scerts Model. P. Molteni¹ and K. R. Guldberg², (1)School of Education, Università Cattolica del Sacro Cuore, Milano, Italy, (2)University of Birmingham, Birmingham, United Kingdom
- 15:00 104 116.104 Three Years of a Specialty Care Programme for Autism Spectrum Disorders. Overview and Clinical Results. C. Llorente¹, C. Moreno², J. Romo³, L. Boada⁴, M. L. Dorado¹, C. Arango⁵ and M. Parellada⁶, (1)Child and Adolescent Psychiatry Department, CIBERSAM, Instituto de Investigación Sanitaria Gregorio Marañón, IISGM. Hospital General Universitario Gregorio Marañón, Madrid, Spain, (2)Hospital General Universitario Gregorio Marañón. Instituto de Investigación Sanitaria Gregorio Marañón. IISGM. CIBERSAM, Child and Adolescent Psychiatry Department, Spain, Madrid, Spain, (3)Hospital General Universitario Gregorio Marañón. Instituto de Investigación Sanitaria Gregorio Marañón. IISGM. CIBERSAM, Child and Adolescent Psychiatry Department, Spain, Madrid, Spain, (4)Child and Adolescent Psychiatry Department, Hospital General Universitario Gregorio Marañón. Instituto de Investigación Sanitaria Gregorio Marañón. IISGM. CIBERSAM, Madrid, Spain, (5)Child and Adolescent Psychiatry Department, Hospital General Universitario Gregorio Marañón. Instituto de Investigación Sanitaria Gregorio Marañón. IISGM. CIBERSAM, Madrid, Spain
- 16:00 105 116.105 School Psychologist Utilization of Evidence-Based Practice for Assessment of Autism Spectrum Disorder. S. Dufek¹, L. Schreiberman and A. C. Stahmer, University of California, San Diego, La Jolla, CA
- 14:00 106 116.106 Integrating Research, Practice and Policy in ASD. L. White¹, S. J. Carrington², B. Winn³, C. Ramsden³, H. Morgan⁴ and S. R. Leekam⁵, (1)Wales Autism Research Centre, Cardiff University, Cardiff, Wales, (2)Wales Autism Research Centre, Cardiff, United Kingdom, (3)Cardiff University, Cardiff, Wales, (4)Autism Cymru, Cardiff, Wales, (5)Park Place, Cardiff University, Cardiff, United Kingdom
- 15:00 107 116.107 Perceived Autonomy Support in Children with Autism Spectrum Disorder. N. M. Shea¹, J. J. Diehl², K. Tang³, M. Van Ness³, S. L. Mazur³ and M. Millea⁴, (1)Psychology, Syracuse University, Syracuse, NY, (2)Center for Children and Families, University of Notre Dame, South Bend, IN, (3)University of Notre Dame, Notre Dame, IN, (4)Nielsen NeuroFocus, Cincinnati, OH

- 16:00 108 116.108 Participatory Research Partnerships in Autism Research. J. Jivraj¹, A. Newton², D. Nicholas³ and L. Zwaigenbaum⁴, (1)University of Alberta, Edmonton, AB, Canada, (2)Department of Pediatrics, Faculty of Medicine & Dentistry, University of Alberta, Edmonton, AP, Canada, (3)University of Calgary, Edmonton, AB, Canada, (4)Glenrose Rehabilitation Hospital, University of Alberta, Edmonton, AB, Canada

Poster Sessions
117 - Core Deficits I

14:00 - 18:00 - Banquet Hall

- 14:00 ♦ 109 117.109 Developmental Profiling of Voice Quality in Infants At Risk of Autism. S. Ghai¹, K. L. Muench, A. Klin and G. Ramsay, Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA
- 15:00 110 117.110 Pupillary Light Reflex Constriction Amplitude's Correlation to Clinical Symptoms. J. H. Miles¹, T. N. Takahashi¹, C. L. Daluwatte² and G. Yao², (1)Thompson Center for Autism and Neurodevelopmental Disorders, Columbia, MO, (2)Department of Biological Engineering, University of Missouri Columbia, Columbia, MO
- 16:00 111 117.111 A Tool for Setting Therapeutic Goals by the Multidisciplinary Team for the Preschool Age Child with ASD. A. Kotsopoulos¹, A. Georgiou², M. Gyftogianni², K. Gyftogianni², I. Florou², A. Troupou² and M. Sakellari³, (1)Technological Institute of Patras, Messolonghi, Greece, (2)Day Centre for Children with Developmental Disorders, EPSYPEA, Messolonghi, Greece, (3)Day Centre for Children with Developmental Disorders, EPSYPEA, Messolonghi, Greece
- 14:00 112 117.112 Gender Differences in ASD Symptoms in Adults with High Functioning Autism Spectrum Disorders. W. T. Brooks¹, H. M. Scott², B. A. Benson² and M. E. Moran², (1)Ohio State University, Nisonger Center, Columbus, OH, (2)Nisonger Center, Columbus, OH
- 15:00 ▶ 113 117.113 Validation of the Korean M-CHAT: Preliminary Data. H. Seung¹, S. J. Kim², G. Hong³, H. Lee⁴ and M. Chang⁵, (1)California State University, Fullerton, CA, (2)Nazarene University, Cheonan, South Korea, (3)communication disorders, Nazarene University, Cheonan, South Korea, (4)Yeung Nam University, Kyung San, South Korea, (5)Seo Kyeong University, Seoul, South Korea
- 16:00 ▶ 114 117.114 Cross-Cultural Differences in Responses to Sexuality within ASD Across Asian and Australian Cultures. A. Kaur¹ and M. A. Stokes², (1)Psychology, Monash Medical Centre, Clayton, Australia, (2)School of Psychology, Deakin University, Melbourne, Australia
- 14:00 115 117.115 Tackling Teenage in High Functioning-Autism Spectrum Disorder Adolescents (HF-ASD): A Pilot Project in Barcelona. R. Calvo Escalona¹, O. Puig Navarro², C. Amat³, L. Peran³, R. Balcells⁴ and J. Castro-Fornieles⁵, (1)Child and Adolescent Psychiatry and Psychology Department, Hospital Clinic of Barcelona, Barcelona, Spain, (2)SGR 1119, Barcelona, Spain, (3)Catalonian Asperger's Association, Barcelona, Spain, (4)Child and Adolescent Psychiatry, Hospital de Mataró, Barcelona, Spain, (5)Child and Adolescent Psychiatry, Hospital Clinic of Barcelona, Barcelona, Spain
- 15:00 116 117.116 An Exploratory Factor Analysis On the 3di Supports the Proposed DSM-5 Model. W. De la Marche^{1,2}, I. Noens^{1,3,4}, B. Boets^{1,5} and J. Steyaert^{1,5,6}, (1)Leuven Autism Research (LAuRes), University of Leuven (KU Leuven), Leuven, Belgium, (2)Divisie Jongeren, Openbaar Psychiatrisch Zorgcentrum Geel, Geel, Belgium, (3)Parenting and Special Education Research Unit, University of Leuven (KU Leuven), Leuven, Belgium, (4)7Psychiatric and Neurodevelopmental Genetics Unit, Massachusetts General Hospital, Boston, MA, (5)Child Psychiatry, University of Leuven (KU Leuven), Leuven, Belgium, (6)Clinical Genetics, Maastricht University Hospital, Maastricht, Netherlands

- 16:00 117 117.117 A Sequential-Longitudinal Study on the Origins of Theory of Mind Abilities in Children with ASDs. R. Fadda¹, M. Parisi¹, R. Fanari¹, D. Rollo², M. Foscoliano³ and G. S. Doneddu³, (1)Department of Pedagogy, Psychology and Philosophy, University of Cagliari, Cagliari, Italy, (2)Department of Neuroscience, University of Parma, Parma, Italy, (3)Center for Pervasive Developmental Disorders, Azienda Ospedaliera Brotzu, Cagliari, Italy
- 14:00 118 117.118 Identifying Unexpected and Inappropriate Words in ASD Language Samples. E. T. Prud'hommeaux¹, M. Rouhizadeh, B. Roark and J. van Santen, Center for Spoken Language Understanding, Oregon Health & Science University, Beaverton, OR
- 15:00 119 117.119 The Developmental Profile of Perspective-Taking in Written Story Production by Children with ASD. L. Stirling¹, G. Barrington, S. Douglas and K. Delves, University of Melbourne, Melbourne, Australia
- 16:00 120 117.120 Early Vocal Development in Infants at Risk of Autism: Prosodic Development, Social Interaction, and Outcome. K. L. Muench¹, S. Ghai, A. Klin and G. Ramsay, Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA
- 14:00 121 117.121 Comparison of Methods for Assessing Receptive Language Knowledge in Minimally Verbal Children and Young Adults with Autism Spectrum Disorders. D. Plesa Skwerer¹, S. Siegel, A. A. Harris, S. R. Messier and H. Tager-Flusberg, Boston University, Boston, MA
- 15:00 122 117.122 Marital and Coparenting Quality in Families of Children with Autism Spectrum Disorders (ASDs). A. R. Ly¹ and W. A. Goldberg², (1)Psychology, University of Delaware, Newark, DE, (2)Psychology and Social Behavior, University of California, Irvine, Irvine, CA
- 16:00 123 117.123 Reliabilities and Validities of the Chinese Mandarin Version of the Social Communication Questionnaire (SCQ) From a Population-Based Study in Taiwan. P. C. Tsai¹, L. C. Lee¹, R. Harrington¹, I. T. Li², C. L. Chang³ and F. W. Lung⁴, (1)Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (2)Calo Hospital, PingTung, Taiwan, (3)Psychiatry, Kaohsiung Armed Forces General Hospital, Kaohsiung, Taiwan, (4)Taipei City Hospital, Taipei, Taiwan
- 14:00 124 117.124 Measuring Language Competence in Children with ASD and Average Intelligence. C. R. Newsom¹ and B. Corbett², (1)Peabody Box 74, Vanderbilt University, Nashville, TN, (2)Vanderbilt University, Nashville, TN
- 15:00 125 117.125 Non-Linear Analyses of Speech and Prosody in Asperger's Syndrome. R. Fusaroli^{1,2,3}, D. Bang^{3,4,5} and E. Weed^{2,3,6}, (1)Center for Semiotics, Aarhus University, Aarhus, Denmark, (2)Center for Functionally Integrative Neuroscience, Aarhus University Hospital, Aarhus, Denmark, (3)Interacting Minds, Aarhus University, Aarhus, Denmark, (4)Experimental Psychology, Oxford University, Oxford, United Kingdom, (5)Calleva Research Centre, Magdalen College, Oxford, United Kingdom, (6)Linguistics, Aarhus University, Aarhus, Denmark
- 16:00 126 117.126 Is Early Joint Attention Associated with School-Age Pragmatic Language Among Children with ASD, Infant Siblings of Children with Autism and Low-Risk Controls? K. Gillespie-Lynch^{1,2}, A. Khalulyan², M. Del Rosario², B. McCarthy², L. Gomez², M. Sigman² and T. Hutman², (1)Psychology, College of Staten Island, Staten Island, NY, (2)University of California, Los Angeles, Los Angeles, CA
- 14:00 127 117.127 Phonological Delay or Phonological Impairment in Autism: An Intergroup Comparison. S. Ferré¹, C. dos Santos¹ and F. Bonnet-Brilhault², (1)Université François Rabelais de Tours; Unité "Imagerie et Cerveau" Inserm UMR 930, CNRS ERL 3106; Tours, France, Tours, France, (2)UMR Inserm U930, Tours, France
- 15:00 128 117.128 Childhood Autism: Comparison Between Impressions of Parents and Educators. D. Satterfield¹, S. Kang¹, C. Lepage², H. Deering¹ and N. Ladjahasan³, (1)Graphic Design, Iowa State University, Ames, IA, (2)Pediatric Neurology, Sutter Neuroscience Institute, Sacramento, CA, (3)IDRO, Iowa State University, Ames, IA
- 16:00 129 117.129 Initial Validation of the Social Communication Checklist. A. Wainer¹ and B. Ingersoll, Michigan State University, East Lansing, MI
- 14:00 130 117.130 Distinctive Autism Diagnostic Profiles of Latino Children in Puerto Rico. N. Linares-Orama¹, University of Puerto Rico, San Juan, PR
- 15:00 131 117.131 Signaling of Non-Comprehension by Boys with Idiopathic Autism, Fragile X Syndrome and Autism, and Typical Development. J. Hornickel¹, M. Losh¹, G. Martin^{2,3}, S. McGrath² and G. R. Durante⁴, (1)Communication Sciences and Disorders, Northwestern University, Evanston, IL, (2)Frank Porter Graham Child Development Institute, University of North Carolina at Chapel Hill, Chapel Hill, NC, (3)Division of Speech and Hearing Sciences, University of North Carolina at Chapel Hill, Chapel Hill, NC, (4)School of Education, University of North Carolina at Chapel Hill, Chapel Hill, NC
- 16:00 132 117.132 Acoustic Measurements of Prosodic Information in Toddlers with Autism Spectrum Disorders. N. Brosh¹, J. F. Santos², T. H. Falk³, L. Zwaigenbaum⁴, S. E. Bryson⁵, W. Roberts⁶, I. M. Smith⁷, P. Szatmari⁸ and J. A. Brian⁹, (1)Pediatrics, Holland Bloorview Kids Rehab Hospital University of Toronto, Toronto, ON, Canada, (2)Insitut National de la Recherche Scientifique (INRS-EMT), University of Quebec, Montreal, QC, Canada, (3)MuSAE Lab, Institut National de la Recherche Scientifique (INRS-EMT) University of Quebec, Montreal, QC, Canada, (4)Glenrose Rehabilitation Hospital, University of Alberta, Edmonton, AB, Canada, (5)Dalhousie / IWK Health Centre, Halifax, NS, Canada, (6)University of Toronto, Toronto, ON, Canada, (7)Offord Centre for Child Studies & McMaster University, Hamilton, ON, Canada, (8)150 Kilgour Rd., Holland Bloorview / Sick Kids, Toronto, ON, Canada
- 14:00 133 117.133 The Development of the Multidimensional Social Competence Scale (MSCS): A Standardized Measure of Social Competence in Autism Spectrum Disorders. J. Yager and G. Iarocci¹, Department of Psychology, Simon Fraser University, Burnaby, BC, Canada
- 15:00 134 117.134 Characterization of ASD Onset Using Automated Analyses of Child Vocal Patterns. A. N. Esler¹ and A. Besner², (1)Rm 340, University of Minnesota, Minneapolis, MN, (2)University of Minnesota, Minneapolis, MN
- 16:00 135 117.135 Refining the Pittsburgh Inference Test (PIT): A New Measure of Discourse Processing in Individuals with High-Functioning Autism. K. E. Bodner¹, N. J. Minshew² and D. L. Williams³, (1)University of Missouri, Columbia, MO, (2)University of Pittsburgh, Pittsburgh, PA, (3)Duquesne University, Pittsburgh, PA
- 14:00 136 117.136 Construction and Validation of the Early Social Communicative Behavior Questionnaire. M. E. Buruma¹ and E. M. Blijd-Hoogewys², (1)Autism Team North Netherlands, Lentis, Groningen, Netherlands, (2)Autism Team North-Netherlands, Lentis, Groningen, Netherlands
- 15:00 137 117.137 Primary Data On Using Sensors to Analyze Motor Aspects of Gesture Behavior in Children with Autistic Spectrum Disorders. L. Sparaci¹, D. Formica², F. Lasorsa¹, L. Ricci², P. Venuti³ and O. Capirci¹, (1)Institute of Cognitive Sciences and Technologies (ISTC), National Research Council of Italy (CNR), Rome, Italy, (2)Laboratory of Biomedical Robotics and Biomicrosystems (CIR), Università Campus Bio-Medico, Rome, Italy, (3)University of Trento, Trento, Italy
- 16:00 138 117.138 Validity of a Brief Joint Attention Scale-Based On Items From the SCQ and SRS. S. Novotny¹, P. C. Mundy², M. Solomon³, W. Jarrold⁴, N. McIntyre⁵, L. Swain¹, N. V. Hatt⁶ and M. Gwaltney⁷, (1)University of California, Davis, Davis, CA, (2)University of California at Davis, Sacramento, CA, (3)Department of Psychiatry, M.I.N.D. Institute, Imaging Research Center, Sacramento, CA, (4)UC Davis, Davis, CA, (5)UC Davis, Davis, CA, (6)University of California at Davis, Davis, CA, (7)University of California Davis, Learning & Mind Sciences, Sacramento, CA

- 14:00 ▶ 139 117.139 The Developmental Check-In (DCI): A New Visual Autism Screening Tool. Y. Janvier¹, J. Harris² and D. S. Mandell³, (1)Medicine, Children's Specialized Hospital, Toms River, NJ, (2)Children's Specialized Hospital, Mountainside, NJ, (3)Psychiatry, Center for Mental Health Policy and Services Research, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA
- 15:00 140 117.140 Predictors of High and Low Language Skills in Young Children On the Autism Spectrum. S. Ellis-Weismer¹, S. T. Kover and H. Sindberg, University of Wisconsin-Madison, Madison, WI
- 16:00 141 117.141 Understanding the Relationship Between Empathy and Social Responsiveness in Young Adults with Autism Spectrum Disorders. E. Javanfard^{1,2}, D. Janulaitis³, J. Hopkins¹, S. Bates⁴ and E. Laugeson⁵, (1)Department of Psychiatry, UCLA PEERS Clinic, Los Angeles, CA, (2)Pepperdine University, Los Angeles, CA, (3)The Help Group - UCLA Autism Research Alliance, Sherman Oaks, CA, (4)UCLA PEERS Program, Los Angeles, CA, (5)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA
- 14:00 142 117.142 Facial Emotion Recognition and Visual Search Strategies of Children with High Functioning Autism and Asperger Syndrome. D. Leung¹, T. Falkmer¹, M. Falkmer¹ and A. Ordqvist², (1)Curtin University, Perth, Australia, (2)Linköping University, Linköping, Sweden
- 15:00 ♦143 117.143 The Female Adaptive Behavior Profile in Asperger Syndrome or High Functioning Autism. I. A. Cox¹, M. A. Stokes², J. A. McGillivray¹, J. Manjiviona³ and T. Attwood⁴, (1)Deakin University, Burwood, Australia, (2)Deakin University, Burwood, VIC, Australia, (3)Private Practice, Melbourne, Australia, (4)The Asperger's clinic, Brisbane, Australia, Petrie, QLD, Australia
- 16:00 144 117.144 Pragmatic Language Characteristics of Adolescents with Autism and Their Siblings. A. L. Hogan-Brown¹ and M. Losh, Roxelyn and Richard Pepper Department of Communication Sciences and Disorders, Northwestern University, Evanston, IL
- 14:00 145 117.145 Autism Spectrum Disorder: Potential Presence in Online College Community. D. Satterfield¹, C. Lepage² and N. Ladjahasan³, (1)Graphic Design, Iowa State University, Ames, IA, (2)Pediatric Neurology, Sutter Neuroscience Institute, Sacramento, CA, (3)IDRO, Iowa State University, Ames, IA
- 15:00 146 117.146 The Good Life and How to Attain It: Lessons From the Experiences of People with High Functioning Autism Disorders. E. A. McNulty¹, J. M. Montgomery² and M. Medved³, (1)Social Work Dept., Faculty of Health & Community Studies, Grant Macewan University, Edmonton, AB, Canada, (2)Psychology Dept., University of Manitoba, Winnipeg, MB, Canada, (3)Psychology, University of Manitoba, Winnipeg, MB, Canada
- 16:00 147 117.147 Predictors of Parent-Child Interaction Style in Dyads Where Children Have Autism. K. Hudry¹, C. R. Aldred², S. Wigham³, J. Green², K. Leadbitter², K. Temple³, K. Barlow³, H. McConachie³ and T. PACT Consortium², (1)Olga Tennison Autism Research Centre, Melbourne, Australia, (2)University of Manchester, Manchester, United Kingdom, (3)Newcastle University, Newcastle Upon Tyne, United Kingdom
- 14:00 148 117.148 The Effect of Semantic Context On Prosodic Processing Across the Autism Spectrum. A. M. Petrou¹, M. E. Stewart², M. Ota³, S. Peppe⁴ and J. McCann⁴, (1)Heriot-Watt University, East Lothian, Scotland, United Kingdom, (2)Heriot-Watt University, Edinburgh, United Kingdom, (3)University of Edinburgh, Edinburgh, United Kingdom, (4)Queen Margaret University, Edinburgh, United Kingdom
- 15:00 149 117.149 'Think', 'Feel', 'React' - Exploring Anxiety in Autism Spectrum Disorder (ASD): The Role of Executive and Sensory Processing Dysfunctions. N. Darus^{1,2}, J. Rodgers³, D. Riby⁴ and E. Janes⁵, (1)Institute of Neuroscience, School of Medical Sciences, Newcastle University, Newcastle upon tyne, United Kingdom, (2)Institute of Neuroscience, School of Medical Sciences, Newcastle University, Newcastle upon Tyne, United Kingdom, (3)Institute of Neuroscience, School of Medical Sciences, Newcastle University, Newcastle upon Tyne, United Kingdom, (4)School of Psychology, Newcastle University, Newcastle upon Tyne, United Kingdom, (5)Institute of Neuroscience, School of Psychology, Newcastle University, Newcastle upon Tyne, United Kingdom
- 16:00 150 117.150 Language-Gestures Relationship in Narrative Production of Children with Autism Spectrum Disorders. S. Cuva¹, P. Venuti¹, I. Dalvit¹, M. Mastrogiuseppe¹, P. Rigo¹ and O. Capirci², (1)University of Trento, Trento, Italy, (2)Institute of Cognitive Sciences and Technologies (ISTC), National Research Council of Italy (CNR), Rome, Italy
- 14:00 151 117.151 Autism Mental Status Examination: A Preliminary Report of an Italian Version. V. Scandurra¹, M. R. Scordo¹, C. Antonelli¹, R. Storino¹, C. Lorini² and R. Canitano³, (1)Child Neuropsychiatry, Careggi University Hospital, Florence, Italy, (2)Dipartimento di Salute Pubblica, Florence University, Florence, Italy, (3)University hospital of Siena, Siena, Italy
- 15:00 152 117.152 Psychometric Features of the Pictorial Infant Communication Scales (PICS) in Preschool-Aged Children with ASD. C. S. Ghilain¹, M. V. Parladé², M. McBee³, D. Coman⁴, P. Durham⁴, M. Alessandri⁵, A. Gutierrez⁶, K. Hume⁷, B. Boyd⁸ and S. Odom⁹, (1)Psychology, University of Miami, Coral Gables, FL, (2)Psychology, University of Pittsburgh, Pittsburgh, PA, (3)University of North Carolina, Chapel Hill, NC, (4)University of Miami, Miami, FL, (5)Psychology and Pediatrics, University of Miami, Coral Gables, FL, (6)Psychology, Florida International University, Miami, FL, (7)University of North Carolina, Chapel Hill, Chapel Hill, NC, (8)University of North Carolina at Chapel Hill, Chapel Hill, NC
- 16:00 ♦153 117.153 Elicited Production of Pronominal Clitics in French-Speaking Children with ASD: A Comparative ASD / SLI Study. L. Tuller¹, P. Prévost², P. Leger¹, R. Zebib² and F. Bonnet-Brihaye³, (1)Université François Rabelais, INSERM U930, Tours, France, (2)Université François Rabelais, Tours, France, (3)UMR Inserm U930, Tours, France
- 14:00 154 117.154 Examining the Role of Cognitive Biases On Language Profiles in Autism Spectrum Disorders and Typical Development. S. B. Vanegas¹ and D. Davidson², (1)Loyola University Chicago, Chicago, IL, (2)Loyola University Chicago, Chicago, IL
- 15:00 155 117.155 Social Information Processing Skills in Relation to Emotion Recognition, Theory of Mind, and Pragmatic Language in Children with and without Autism Spectrum Disorders. N. M. Russo-Ponsaran¹, C. McKown, J. K. Johnson, A. Allen and B. Evans-Smith, Behavioral Sciences; Rush NeuroBehavioral Center, Rush University Medical Center, Skokie, IL
- 16:00 156 117.156 The Association of Emotion Dysregulation to Core Features of the Autism Spectrum Disorder. A. C. Samson¹, J. J. Gross¹, S. Cormenzana², K. J. J. Parker³ and A. Y. Hardan³, (1)Department of Psychology, Stanford University, Stanford, CA, (2)Department of Psychology, Universidad de Deusto, Bilbao, Spain, (3)Psychiatry and Behavioral Sciences, Stanford University School of Medicine, Stanford, CA
- 14:00 157 117.157 Exploring the Influence of Adaptive, Affective, and Sensory Responses On Persistence On Sameness. N. Ollington¹ and I. Hay, Faculty of Education, University of Tasmania, Hobart, Australia

- 15:00 158 117.158 The Relationship Between Social Anxiety and Loneliness Among Young Adults with Autism Spectrum Disorders. M. K. Fitzpatrick^{1,2}, T. Bayrami², D. Janulaitis³, S. Bates⁴, J. Hopkins⁵ and E. Laugeson⁶, (1)UCLA PEERS Clinic, Los Angeles, CA, (2)The Help Group-UCLA Autism Research Alliance, Sherman Oaks, CA, (3)The Help Group-UCLA Autism Research Alliance, Sherman Oaks, CA, (4)UCLA PEERS Program, Los Angeles, CA, (5)Department of Psychiatry, UCLA PEERS Clinic, Los Angeles, CA, (6)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA
- 16:00 159 117.159 Mother-Child Dyadic Interaction in Preschoolers with ASD: Emotion Regulation and Cortisol Levels During Positive and Negative Emotion Eliciting Situations. S. Ostfeld Etzion¹, O. Golan^{1,2}, Y. Hirschler Guttenberg¹ and R. Feldman^{1,3}, (1)Department of Psychology, Bar-Ilan University, Ramat-Gan, Israel, (2)Bait Echad Center, The Association for Children at Risk, Tel Aviv, Israel, (3)Gonda Multidisciplinary Brain Research Center, Bar-Ilan University, Ramat-Gan, Israel
- 14:00 160 117.160 Sexual Knowledge, Self-Efficacy, and Risky Behaviours: Are Young Adults with ASD At Risk?. S. M. Brown¹, M. A. Viecili² and J. A. Weiss², (1)4700 Keele Street, York University, Toronto, ON, Canada, (2)York University, Toronto, ON, Canada
- 15:00 161 117.161 Social Motivation As a Predictor of Decreased Problem Behaviors in Adolescents with ASD Following the UCLA PEERS® Program. Y. Bolourian^{1,2}, J. Hopkins³, S. Bates⁴ and E. Laugeson⁵, (1)UCLA PEERS Clinic, Los Angeles, CA, (2)The Help Group-UCLA Autism Research Alliance, Sherman Oaks, CA, (3)Department of Psychiatry, UCLA PEERS Clinic, Los Angeles, CA, (4)UCLA PEERS Program, Los Angeles, CA, (5)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA
- 16:00 162 117.162 Methods for Assessing Language in School-Age Children with Autism and Intellectual Disability. A. Sterling¹, E. Haebig² and S. Schroeder², (1)Communicative Disorders, University of Wisconsin-Madison, Madison, WI, (2)University of Wisconsin-Madison, Madison, WI
- 14:00 163 117.163 Identifying Sub-Types of Responders to Intervention in Young Children with Autistic Spectrum Disorder. R. L. Young¹, N. Brewer², M. T. Angley¹, L. Giles³ and T. Windsor¹, (1)Flinders University of South Australia, Adelaide, Australia, (2)Flinders University of South Australia, Adelaide, SA, Australia, (3)Adelaide University, Adelaide, Australia
- 15:00 164 117.164 Auditory Processing Skills and Joint Attention Abilities in Children with ASDs. R. Fadda¹, G. S. Doneddu², S. Congiu², G. Saba² and L. Ferretti², (1)Department of Pedagogy, Psychology and Philosophy, University of Cagliari, Cagliari, Italy, (2)Center for Pervasive Developmental Disorders, Azienda Ospedaliera Brotzu, Cagliari, Italy
- 16:00 165 117.165 Infants' Repetitive Behaviour, Locomotor Development and Social Communication Abilities. R. Fyfield¹, S. R. Leekam² and D. F. Hay¹, (1)School of Psychology, Cardiff University, Cardiff, United Kingdom, (2)Wales Autism Research Centre, School of Psychology, Cardiff University, Cardiff, United Kingdom
- 14:00 166 117.166 Quantifying Social-Communicative Function in ASD Via a Structured Social Attribution Task. R. Burger-Caplan¹, W. Jones² and A. Klin², (1)Clinical Psychology, Emory University, Atlanta, GA, (2)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA
- 15:00 167 117.167 Diminished Social Responses During Neurobehavioral Exam in Newborns At-Risk for Autism. S. J. Sheinkopf^{1,2}, L. Andreozzi², E. J. Tenenbaum², A. L. Salisbury^{1,2} and B. M. Lester^{1,2}, (1)The Warren Alpert Medical School of Brown University, Providence, RI, (2)Brown Center for the Study of Children at Risk, Women & Infants Hospital, Providence, RI
- 16:00 168 117.168 Orthography Facilitates Vocabulary Learning for (Some) Children with Autism Spectrum Disorders (ASD). R. Lucas¹ and C. Norbury², (1)Psychology, Royal Holloway University of London, Egham, United Kingdom, (2)Psychology, Royal Holloway, University of London, Egham, United Kingdom
- 14:00 169 117.169 Do Children with Autism Understand Communicative Intentions in a Hiding-Finding Game? R. P. Hobson¹, J. A. Hobson¹ and P. Rios², (1)Institute of Child Health, UCL, London, United Kingdom, (2)Harper House Children's Service, Radlett, United Kingdom
- 15:00 170 117.170 Social Attention in 12- and 18-Month-Old Infants Later Diagnosed with Autism. A. R. Neal-Beevers¹, S. J. Sheinkopf^{2,3}, T. P. Levine^{2,3}, A. L. Johnson^{2,4}, B. M. Lester^{2,3}, L. L. LaGasse^{2,3}, C. R. Bauer⁵, S. Shankaran⁶, H. Bada⁷, J. A. Hammond⁸, T. M. Whitaker⁹ and R. Higgins¹⁰, (1)Department of Psychology, University of Texas at Austin, Austin, TX, (2)The Warren Alpert Medical School of Brown University, Providence, RI, (3)Brown Center for the Study of Children at Risk, Women & Infants Hospital, Providence, RI, (4)E. P. Bradley Hospital, East Providence, RI, (5)University of Miami, Miami, FL, (6)Wayne State University, Detroit, MI, (7)University of Kentucky College of Medicine, Lexington, KY, (8)RTI International, Rockville, MD, (9)The University of Tennessee Health Science Center, Memphis, TN, (10)National Institute of Child Health & Human Development, Rockville, MD
- 16:00 171 117.171 Describing the Heterogeneity of Parent-Child Dyads Including Minimally Verbal Children with Autism. S. Patterson¹, K. Goods¹, A. P. Kaiser², R. Landa³, P. Mathy³ and C. Kasari¹, (1)University of California Los Angeles, Los Angeles, CA, (2)Vanderbilt University, Nashville, TN, (3)Kennedy Krieger Institute, Baltimore, MD
- 14:00 172 117.172 Associations Between Maternal Prompts and Infant Communication: Insights From the Video Diaries of Infants At Risk for Autism. M. R. Thompson¹, C. K. Cohen¹, C. A. Nelson² and H. Tager-Flusberg¹, (1)Boston University, Boston, MA, (2)Boston Children's Hospital, Boston, MA
- 15:00 173 117.173 Brain Computer Interface (BCI) As a Potential Tool for Characterizing the Cognition of Non-Verbal Individuals with Autism. Y. S. Bonne¹, J. Giron², M. Segal² and D. Friedman², (1)Human Biology, University of Haifa, Haifa, Israel, (2)Interdisciplinary Center (IDC) Herzliya, Herzliya, Israel
- 16:00 174 117.174 The Relationship Between Parent-Child Dysfunction and Language Outcomes in Preschoolers with Autism. S. Druckman¹, C. S. Ghilain², A. Gutierrez² and M. Alessandri⁴, (1)University of Miami, Miami, FL, (2)5665 Ponce De Leon Blvd., University of Miami, Miami, FL, (3)Psychology, Florida International University, Miami, FL, (4)Psychology and Pediatrics, University of Miami, Coral Gables, FL
- 14:00 175 117.175 Social Motivation and Its Relation to the Development of Joint Attention. J. S. Durocher^{1,2}, M. N. Hale³, A. Gutierrez⁴, S. Novotny⁵ and A. M. Rowley⁶, (1)University of Miami, Miami, FL, (2)Psychology, University of Miami, Miami, FL, (3)University of Miami, Coral Gables, FL, (4)Psychology, Florida International University, Miami, FL, (5)University of California, Davis, Davis, CA, (6)Psychology, Nova Southeastern University, Davie, FL
- 15:00 176 117.176 Word Mapping Using Lexical Stress in 12-Month-Old Infant Siblings of Children with Autism and Its Relationship with Early Language Development. J. D. Ference¹ and S. Curtin², (1)Psychology, University of Calgary, Calgary, AB, Canada, (2)Psychology, University of Calgary, Calgary, AB, Canada
- 16:00 177 117.177 Assessment of Social Communication in Infants At High Risk for Autism Spectrum Disorders: Inclusion of Naturalistic Behavior Samples. M. V. Paradé¹ and J. M. Iverson², (1)Psychology, University of Miami, Coral Gables, FL, (2)University of Pittsburgh, Pittsburgh, PA
- 14:00 178 117.178 Understanding Metaphor Understanding in Autism. L. Brown¹, N. Katsos² and K. Plaistead Grant¹, (1)Department of Psychology, Laboratory for Research into Autism, University of Cambridge, Cambridge, United Kingdom, (2)Department of Theoretical and Applied Linguistics, University of Cambridge, Cambridge, United Kingdom

FRIDAY May 3, 2013 - AM

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8:00-18:00	Registration			
7:30-9:00	SIG – Meeting Room 8 & 9	SIG – Meeting Room 1 & 2	SIG – Meeting Room 3	SIG – Meeting Room 4 & 5
9:00-17:00	Exhibits – Foyer 1 outside of the Auditorium			
9:00-9:15	Introduction: Autism Speaks - Geri Dawson - Auditorium			
9:15-10:00	Keynote Address: Dan Geschwind - Advances in Autism: Genetics Filling the Empty Fortress - Auditorium			9:00-13:00 Innovative Technologies Demonstration – Banquet Hall
10:00-10:30	Break – Exhibit Area/Poster Area			Poster Sessions – Banquet Hall Neurophysiology 1 Treatments: Early Intervention Trials Core Deficits: Social Understanding Cognition and Behavior I: Sensory-Motor Processing Genetic Factors in ASD Brain Imaging - Structure/Function Correlation Treatments: Interventions in School Age, Adolescents and Adults and Social Skills Interventions
10:30-12:30	Educational Symposia – Auditorium The Role of Environmental Exposures in Autism Etiology: A Retrospective of the Last Decade, New Results and Frontiers for the Future			
10:30-12:30	Oral Session – Chamber Hall Cell Biological Mechanisms	Oral Session – Meeting Room 1 & 2 Neurophysiology : (1) Perception and (2) Measurements of Treatment	Oral Session – Meeting Room 3 Stakeholder Experience	
12:30-13:45	Lunch provided – stations throughout the Kursaal Centre			
12:30-13:45	Cultural Diversity Networking Luncheon - Meeting Room 8 & 9			
12:30-13:45	Autism Community Stakeholder Luncheon - Meeting Room 4 & 5			

FRIDAY – AM

Special Interest Groups (SIGs)

7:30 - 9:00

Location listed under each session

Returning SIG: Autism SMIG 2013

Chairs: Allison Lane and Justin Williams

Meeting Room 8 & 9

The Autism SMIG (Sensory Motor Interest Group) will meet again at IMFAR 2013. The aims of this group are to facilitate information exchange and collaboration between researchers, and it is open to all researchers and others interested in sensory and motor aspects of autism. Also, we seek to educate the broader autism field about the latest findings in sensory and motor research and how these might be applied in practice. The Autism SMIG hosts a website, blog and Facebook page <https://www.facebook.com/ImfarSmig> for the purposes of communication throughout the year. At IMFAR 2013, we will conduct a “Data Blitz” along with focused discussions on early career mentoring and consensus terms for use in this area. For more information about the Autism SMIG website, please contact: lane.350@osu.edu. For more information about the Data Blitz, please contact: justin.williams@abdn.ac.uk. For more information about the Autism SMIG blog, please contact: j.cusack@abdn.ac.uk.

Returning SIG: Females with ASD

Chairs: Alexandra Head and William Mandy

Meeting Room 1 & 2

This year’s theme is “Defining the ASD Phenotype in Females.” We will have a diverse panel of speakers who will each give brief (5 minute) talks outlining their particular view on how to move forward research on females with ASD. These short talks are designed to stimulate discussion: most of the session

will be dedicated to group interaction and exchange of ideas. We believe that this will allow the members of the SIG to negotiate a consensus about the best way to move our understanding of the female ASD phenotype forward.

Our aim is for the SIG to have a life that is not confined to the annual IMFAR meeting. To this end we have set up a new blog dedicated to the SIG which you can visit at <http://femaleasd.wordpress.com>.

We cordially invite people to read and comment on the blog, to foster independent connections and networks amongst people interested in understanding ASD in females.

We will summarize SIG ideas from the 2013 IMFAR meeting and blog discussions in a review paper, setting out what is known about ASD in females, and outlining potentially fruitful strategies for future research.

New SIG: Relationship Between Criminal Justice Policy and ASDs

Chair: Laurie Sperry

Meeting Room 3

This SIG will begin with an interactive panel discussion which examines criminal justice systems, the characteristics and life circumstances of people with ASD that are implicated in criminal behavior, criminal responsibility and culpability. The prevalence of people with ASD who engage in criminal behavior relative to their prevalence in general society is difficult to determine with precision. Attempts to aggregate prevalence data are compromised by the individual differences that exist in data keeping globally, the validity of diagnoses, and the accuracy of reported offenses. This area of autism research and clinical practice has significant implications for improving outcomes for individuals with ASD who are coming in contact with the criminal justice system. Subgroups within Criminal Justice Policy will be formed to further the discussion and reflect the individual interests of attendees (e.g., risk factors vs. policy vs. treatment) as well as provide

essential networking and mentorship opportunities. We look forward to initiating a global dialogue regarding the scope of this issue and what we, as scholars and clinicians, can do to inform intervention, treatment and improve criminal justice policy and practice.

New SIG: Technology and Autism — Developing a Framework for Best Practice in Design, Development, Evaluation and Dissemination of Autism-Specific Technologies

Chair: Sue Fletcher-Watson

Meeting Room 4 & 5

People with autism are significant consumers of technology, which is often beneficial. Despite the proliferation of autism-specific technologies, as embodied in the IMFAR Tech Demo, there is no agreed theoretical foundation, no consistent methodology for design or evaluation, and a lack of evidence base to inform consumer choices.

The goal of this cross-disciplinary and international SIG is to create a model for best practice in the field, addressing issues raised at a recent event [5], including:

- Theoretical models for technology development and implementation
- Creating autism-specific features of technology, using participatory design
- Evaluating hardware and software and supporting access to those which are demonstrably beneficial
- Guiding families and practitioners in technology selection.

Outcomes will include publication of a series of papers as a journal special issue and a free-to-download booklet offering guidance to practitioners and parents.

These issues are pressing in the light of concerns about screen time for young children [6] and the rapid rate of development of commercial technologies. In future years, the remit of the SIG could be extended to consider the ways in which technology can be harnessed to provide autism support in developing nations, and to support autism across the lifespan.

**Keynote Address
118 - Advances in Autism: Genetics Filling the Empty Fortress**

9:15 - 10:00 - Auditorium

Speaker: Daniel H. Geschwind M.D., Ph.D.; *University of California, Los Angeles*

Genetics has revolutionized the conceptualization of autism, and promises rationale, mechanistically-based therapeutics in the future. At the same time, as our genetic understanding of ASD etiology advances, we must first tackle extraordinary complexity at multiple biological levels, from molecules to cells to circuits and behavior. Recent work in the genetics of ASD predicts that about 1000 genes contribute to the overall population risk for ASD. Furthermore, no major effect gene accounts for more than 1 percent of cases. Genetic effect sizes range from very small (for common variants), to rare mutations that are essentially considered causal. However, even for the most major, causal mutations, the effects appear to extend across current disease boundaries. These data have challenged our lab to focus on two major questions: understanding what are the neurobiological consequences of ASD risk mutations and whether there are common or convergent molecular mechanisms that link ASD cases with diverse etiologies. I will discuss our work using genetically-based animal and in vitro models to understand ASD pathophysiology, as well as our work using systems biology approaches and network inference to connect multiple levels of biology in a coherent manner. Our work in transcriptional profiling reveals strong evidence of convergence on common pathways in the ASD post mortem brain. Overall, these data and that of others support the existence of convergent molecular pathways in ASD. Using this information to develop novel therapeutics in children and adults with ASD remains a critical challenge.

**Educational Symposium
119 - The Role of Environmental Exposures in Autism Etiology: A Retrospective of the Last Decade, New Results and Frontiers for the Future**

10:30 - 12:30 - Auditorium

Session Chair: I. Hertz-Picciotto; *UC Davis M.I.N.D. Institute*

The last decade has witnessed the rapid growth of a body of literature on environmental factors that alter risk for autism. Air pollution, household products, nutrition, maternal obstetric factors, medical interventions and medications, and infections have featured prominently, with particular focus on prenatal influences. This symposium will summarize the state of the science 10 years ago, when few non-genetic etiologic clues had been uncovered. The bulk of the symposium will be devoted to describing major developments in methodology and results since then, providing depth on four classes of exogenous chemical and microbiologic exposures during gestation: air pollution, pesticides, nutrition, and infections. Dr. Marc Weisskopf will address what has been learned about air pollution, the challenges and advances in exposure assessment, recent convergent findings from multiple independent studies in different regions of the U.S. He will then present a novel analysis based on linking EPA modeled pollutant levels to residences near the time of birth of children born to Nurses Health Study-2 participants, including those with and without autism. Dr. Irva Hertz-Picciotto will summarize published and new evidence about insecticides, commonplace chemicals that are perhaps unique in having been designed specifically to damage living organisms. Potential mechanisms of neurotoxicity will be discussed along with epidemiologic studies covering both commercial (largely agricultural) and household applications of organochlorines, organophosphates, and pyrethroids, including new analyses from the CHARGE (Childhood Autism Risks from Genes and Environment) Study. Dr. Rebecca Schmidt will describe the literature on maternal nutritional status in relation to autism, including several publications indicating a protective role of folate in the periconception, present evidence for gene-by-environment interactions with relatively common polymorphisms in the one-carbon metabolism pathway, and then report new data on prenatal iron status. Other aspects of diet will be touched on, and potential mechanisms such as a role for epigenetic alterations will also be discussed. Dr. Hjordis Atladottir will provide an overview of maternal infection and inflammation in autism etiology, beginning with possibly the earliest identified environmental factor, rubella, and tracing recent work on microbial exposures and inflammatory markers. This critical review will cover both epidemiologic and experimental results, characterize the methodologic limitations and pitfalls in work to date, and highlight where further work is needed. Together these four presentations will review our current knowledge base in regard to these four ubiquitous exposures, place this work in the context of the maternal-fetal interface, explain where the research is leading, highlight the challenges, and point to the directions that appear to be the most promising.

- 10:30 119.001 Perinatal Air Pollution Exposure and Autism, with New Results in the Nurses' Health Study-2. A. L. Roberts¹, K. Lyall², F. Laden¹, J. Hart³, A. C. Just¹, K. Koenen⁴, A. Ascherio¹ and M. G. Weisskopf¹, (1)Harvard School of Public Health, Boston, MA, (2)UC Davis M.I.N.D. Institute, Berkeley, CA, (3)The Channing Lab, Brigham and Women's Hospital, Boston, MA, (4)Columbia University Mailman School of Public Health, New York, NY
- 11:00 119.002 Evidence for Gestational Nutrition Influences on Autism Risk, with New Findings for Iron. R. J. Schmidt¹, Public Health Sciences, University of California, Davis, Davis, CA; UC Davis M.I.N.D. Institute, Sacramento, CA
- 11:30 119.003 Insecticides and Risk for Autism: Overview and New Results from the CHARGE Study. I. Hertz-Picciotto¹, L. Delwiche², F. Tassone¹, D. Bennett², D. J. Tancredi³, R. Hansen⁴, S. Ozonoff¹ and I. N. Pessah¹, (1)UC Davis M.I.N.D. Institute, Sacramento, CA, (2)Public Health Sciences, UC Davis, Davis, CA, (3)UC Davis School of Medicine, Sacramento, CA, (4)The M.I.N.D. Institute, University of California, Davis, Sacramento, CA

12:00 119.004 Role of Infection and Immune Activation During Pregnancy in the Etiology of Autism. H. O. Atladottir, University of Aarhus, Aarhus, Denmark

Oral Sessions

120 - Cell Biological Mechanisms

10:30 - 12:30 - Chamber Hall

- 10:30 120.001 Generation and Neuronal Differentiation of Self-Renewing Neuronal Progenitor Cell Lines As a Model to Investigate Synaptic Development and Functions in Patients Affected by the Phelan-Mcdermid Syndrome (PMS). D. I. Orellana¹, E. Faggiani¹, E. Fusar Poli², L. Carlessi², G. Bechi³, C. Vicidomini⁴, C. Sala^{1,4} and C. Verpelli⁴, (1)Neuromuscular Diseases and Neuroimmunology, Neurological Institute Fondazione Carlo Besta, Milan, Italy, (2)Department of Experimental Oncology, Fondazione IRCCS Istituto Nazionale dei Tumori, Milan, Italy, (3)Neurological Institute Fondazione Carlo Besta, Milan, Italy, (4)Department of Pharmacology, CNR Institute of Neuroscience, Milano, Italy
- 10:45 120.002 Redox-Sensitive Protein Dynamics in Lymphoblastoid Cell Lines from Patients with Autism Spectrum Disorders. A. Chiochetti^{1,2,3}, D. Haslinger^{1,2}, T. Karl¹, S. Wiemann², C. M. Freitag⁴, F. Poustka³, B. Scheibe¹, J. Bauer⁵, H. Hintner⁵, M. Breitenbach¹, J. Kellermann⁶, F. Lottspeich⁶, S. M. Klauck² and H. Breitenbach-Koller¹, (1)Department of Cell Biology, University of Salzburg, Salzburg, Austria, (2)Division of Molecular Genome Analysis, Deutsches Krebsforschungszentrum (DKFZ), Heidelberg, Germany, (3)Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, Goethe University, Frankfurt, Germany, (4)Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, Goethe University, Frankfurt, Germany, (5)Department of Dermatology, General Hospital Salzburg / PMU, Salzburg, Austria, (6)Protein Analysis Group, Max-Planck-Institute of Biochemistry, Martinsried, Germany
- 11:00 120.003 Increased Susceptibility of Autism Lymphoblastoid Cells to Mitochondrial Dysfunction Following Reactive Oxygen Species Challenge. S. Rose¹, R. E. Frye², S. Melnyk³, R. A. Wynne⁴ and S. J. James¹, (1)University of Arkansas for Medical Sciences, Little Rock, AR, (2)Arkansas Children's Hospital Research Institute, Little Rock, AR, (3)Pediatrics, University of Arkansas for Medical Sciences, Little Rock, AR, (4)Arkansas Children's Hospital, Little Rock, AR
- 11:15 120.004 Reduced Activities of Mitochondrial Electron Transfer Chain Complexes and Pyruvate Dehydrogenase in the Frontal Cerebral Cortex in Autism. A. Chauhan¹, F. Gu¹ and V. Chauhan², (1)NYS Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (2)NYS Institute for Basic Research in Developmental Disabilities, Staten Island, NY
- 11:30 ▶ 120.005 Oxidative Stress Markers in Children with Autism Spectrum Disorders. M. E. Gonzalez Fraguela, Neurobiochemistry Lab, International Center for Neurological Restoration, Havana, Cuba

11:45 120.006 JAKMIP1 Is a Novel Component of an FMRP-Associated RNP Complex and Regulates Neuronal Translation. J. M. Berg¹, L. Chen², A. Oguro-Ando³, J. L. Stein⁴, J. A. Miller², A. A. Vashisht⁵, E. P. Kite², A. Li², O. Penagarikano⁶, J. A. Wohlschlegel⁵ and D. H. Geschwind⁷, (1)Program in Neuroscience IDP; Semel Institute for Neuroscience and Human Behavior; Program in Neurogenetics, Department of Neurology, The University of California, Los Angeles, Los Angeles, CA, (2)Department of Neurology, The University of California, Los Angeles, Los Angeles, CA, (3)UCLA, Los Angeles, CA, (4)Department of Neurology; Program in Neurogenetics, The University of California, Los Angeles, Los Angeles, CA, (5)Biological Chemistry, The University of California, Los Angeles, Los Angeles, CA, (6)University of California at Los Angeles, Los Angeles, CA, (7)Semel Institute for Neuroscience and Human Behavior; Department of Neurology; Program in Neurogenetics; Center for Autism Research and Treatment and Center for Neurobehavioral Genetics, University of California at Los Angeles, Los Angeles, CA

12:00 120.007 Mutation of the PTCHD1 Gene, Which Encodes a Transmembrane Protein Expressed in Postsynaptic Dendritic Spines, Associated with Autism. M. A. Papon¹, S. Marouilat¹, C. Antar^{1,2}, E. Cottureau^{1,2}, P. Vourc'h^{1,2}, S. Alirol¹, C. Andres^{1,2}, H. van Bokhoven³, J. Chelly⁴, H. Van Esch⁵, H. H. Ropers⁶, M. Raynaud^{1,2}, A. Toutain^{1,2} and F. Laumonier¹, (1)Inserm UMR930, Tours, France, (2)Centre Hospitalier Regional Universitaire, Tours, France, (3)Radboud University Medical Centre, Nijmegen, Netherlands, (4)Institut Cochin, Paris, France, (5)UZ Leuven, Leuven, Belgium, (6)Max Planck Institute for Molecular Genetics, Berlin, Germany

12:15 120.008 Maternal Innate Immune Activation by Poly(I:C) Induces the Expression of the Cytokines IL-1 β and IL-13, Chemokine MCP-1, and Colony Stimulating Factor VEGF in Fetal Mouse Brain. J. L. Bruses¹ and G. Arrode-Bruses², (1)Anatomy and Cell Biology, University of Kansas School of Medicine, Kansas City, KS, (2)Institut Jean Roget, Universite Joseph Fourier, La Tronche, France

Oral Sessions

121 - Stakeholder Experience

10:30 - 12:30 - Meeting Room 3

- 10:30 121.001 A Family Affair: Identifying and Examining Risk Factors for the Emotional and Behavioral Adjustment in Siblings of Children with Autism. K. L. Campe¹, K. Porche², A. V. Snow³ and E. Hanson⁴, (1)Boston Children's Hospital, Boston, MA, (2)Developmental Medicine, Boston Children's Hospital, Boston, MA, (3)Boston Children's Hospital, Harvard Medical School, Boston, MA, (4)Children's Hospital Boston, Boston, MA
- 10:45 121.002 College Students' Attitudes Toward Peers with High Functioning Autism. N. L. Matthews¹, A. R. Ly² and W. A. Goldberg¹, (1)Psychology and Social Behavior, University of California, Irvine, Irvine, CA, (2)Psychology, University of Delaware, Newark, DE
- 11:00 121.003 Medical Record Validation of Maternal Report of Prenatal Medical Conditions and Obstetric Interventions. P. Krakowiak^{1,2}, C. K. Walker^{1,3} and I. Hertz-Picciotto^{2,4}, (1)M.I.N.D. Institute, University of California, Davis, CA, (2)Public Health Sciences, University of California, Davis, CA, (3)Obstetrics and Gynecology, University of California, Davis, CA, (4)Public Health Sciences, UC Davis, Davis, CA

- 11:15 121.005 Impact of a Support Group for Siblings of Children with ASD on the Quality of Sibling Relationships. J. Wolf¹, M. Coffman¹, J. Bradshaw² and L. Herlihy³, (1)Yale Child Study Center, New Haven, CT, (2)Koegel Autism Center, University of California, Santa Barbara, Santa Barbara, CA, (3)Department of Psychology, University of Connecticut, Storrs, CT
- 11:30 121.006 When Are Adolescents with Autism Spectrum Disorder Better at Emotion Recognition Than Their Peers? M. Brosnan¹, E. Chapman, H. Johnson, B. Grawemeyer and L. Benton, University of Bath, Bath, United Kingdom
- 11:45 121.007 Background and Clinical Characteristics of Young Adult Males with Autism Spectrum Disorders Sentenced to Prison for Violent or Sexual Offences. B. Hofvander^{1,2}, E. Billstedt³, M. Wallinius⁴ and H. Anckarsäter⁵, (1)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (2)Forensic Psychiatry, Department of Clinical Sciences, Malmö, Lund University, Malmö, Sweden, (3)Gillberg Neuropsychiatry Centre, University of Gothenburg, Gothenburg, Sweden, (4)Department of Forensic Psychiatry, University of Lund, Lund, Sweden, (5)Department of Forensic Psychiatry, Institute of Neuroscience and Physiology, Sahlgren's Academy, University of Gothenburg, Gothenburg, Sweden
- 12:00 121.008 Child, Parental, and Contextual Factors That Predict Parenting Stress in Families of Young Children with ASD Over a 2-Year Period After Diagnosis. A. Zaidman-Zait¹, P. Mirenda², P. Szatmari³, S. E. Bryson⁴, E. Fombonne⁵, I. M. Smith⁶, W. Roberts⁷, T. Vaillancourt⁸, J. Volden⁹, C. Waddell¹⁰, L. Zwaigenbaum¹¹, S. Georgiades³, E. Duku³ and A. Thompson³, (1)Department of School Counseling and Special Education, University of British Columbia, Tel Aviv, Israel, (2)University of British Columbia, Vancouver, BC, Canada, (3)Offord Centre for Child Studies & McMaster University, Hamilton, ON, Canada, (4)Dalhousie University / IWK Health Centre, Halifax, NS, Canada, (5)Montreal Children's Hospital, Montreal, QC, Canada, (6)Dalhousie / IWK Health Centre, Halifax, NS, Canada, (7)University of Toronto, Toronto, ON, Canada, (8)University of Ottawa, Ottawa, ON, Canada, (9)University of Alberta, Edmonton, AB, Canada, (10)Simon Fraser University, Burnaby, BC, Canada, (11)Glenrose Rehabilitation Hospital, University of Alberta, Edmonton, AB, Canada

Oral Sessions

122 - Neurophysiology : (1) Perception and (2) Measurements of Treatment

10:30 - 12:30 - Meeting Room 1 & 2

- 10:30 122.001 Gamma Oscillations Associated with the Perception of Simultaneity in Autism Spectrum Disorder. D. A. Menassa^{1,2}, C. Falter³ and S. Braeutigam^{1,2}, (1)University of Oxford, Oxford, United Kingdom, (2)Oxford Human Brain Activity Centre, Oxford, United Kingdom, (3)University of Groningen, Groningen, Netherlands
- 10:45 122.002 Somatosensory Gamma Band Phase-Locking Deficits in Autism. D. C. Rojas¹, G. Stelmach², L. B. Wilson¹ and S. Hepburn², (1)University of Colorado Denver, Aurora, CO, (2)University of Colorado, Aurora, CO
- 11:00 122.003 Neurophysiological Correlates of Tactile Sensitivities in ASD. S. Khan¹, M. Tommerdahl², M. G. Kitzbichler³, S. Ganesan⁴, N. R. Shetty⁴, M. R. Herbert⁵, M. S. Hämmäläinen⁶ and T. Kenet⁷, (1)Massachusetts General Hospital, Boston, MA, (2)University of North Carolina, Chapel Hill, NC, (3)Neurology, Massachusetts General Hospital, Boston, MA, (4)Massachusetts General Hospital, Charlestown, MA, (5)Massachusetts General Hospital, Somerville, MA, (6)Athionoula A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital, Charlestown, MA, (7)Massachusetts General Hospital, Charlestown, MA
- 11:15 122.004 Neurophysiological Measures of Sensory Processing and Integration Are Predictive of Autistic Symptom Severity, but Not of Sensory Sensitivities, in a Group of High-Functioning Children and Adolescents with ASD. A. B. Brandwein^{1,2}, J. J. Foxe², T. S. Altschuler², J. S. Butler², J. C. Bates² and S. Molholm², (1)The Graduate Center and Queens College of the City University of New York, New York, NY, (2)Departments of Pediatrics and Neuroscience, The Sheryl and Daniel R. Tishman Cognitive Neurophysiology Laboratory, Albert Einstein College of Medicine, Bronx, NY
- 11:30 122.005 Comparison and Recommendations for Processing EEG Data in Children with Autism and Typical Developing Controls. K. McEvoy¹ and S. S. Jeste, UCLA, Los Angeles, CA
- 11:45 122.006 Neural Plasticity and Intervention: Effects of the PEERS Program on EEG Activity and Respiratory Sinus Arrhythmia. S. Stevens¹, A. V. Van Hecke, J. Wasisco, A. M. Carson, J. S. Karst, K. A. Schohl, B. Dolan, R. J. Rempel, N. Fritz, G. McDonald, A. Reveles and J. Kahne, Marquette University, Milwaukee, WI
- 12:00 122.007 Visual Fixation Preferences in Autism: A Randomized Controlled Trial of Intranasal Oxytocin. L. Strathearn^{1,2}, D. A. Bastian³, J. Jung⁴, S. Kim^{4,5}, U. Iyengar^{4,6}, S. Martinez⁴ and P. Fonagy^{6,6}, (1)Pediatrics, Baylor College of Medicine, Houston, TX, (2)Pediatrics, Baylor College of Medicine / Texas Children's Hospital, Houston, TX, (3)Brigham Young University, Provo, UT, (4)Children's Nutrition Research Center, Baylor College of Medicine, Houston, TX, (5)Menninger Department of Psychiatry and Behavioral Sciences, Baylor College of Medicine, Houston, TX, (6)University College London, London, United Kingdom
- 12:15 122.008 Individual Differences in Affective Social Perception in ASD: Neural, Behavioral, and Psychiatric Contributions. J. C. McPartland¹, A. Naples¹, M. Coffman¹, A. Kresse², C. E. Mukerji¹ and R. Bernier², (1)Yale Child Study Center, New Haven, CT, (2)University of Washington, Seattle, WA

Poster Sessions
123 - Neurophysiology 1
 9:00 - 13:00 - Banquet Hall

- 10:00 1 123.001 Adolescents with ASD Show Attenuated Neural Response to Reciprocal Eye Contact. A. Naples¹, M. Coffman, C. E. Mukerji, R. Tillman and J. C. McPartland, Yale Child Study Center, New Haven, CT
- 11:00 2 123.002 Electroencephalographic (EEGs) Abnormalities in Individuals with Autism Spectrum Disorders (ASDs). D. M. Simula^{1,2}, M. Carta², D. Serra², F. Piras², R. Fadda³, P. Pusceddu⁴, S. Sotgiu⁵ and G. S. Doneddu², (1)Child Neuropsychiatry Unit, University of Sassari, Sassari, Italy, (2)Center for Pervasive Developmental Disorders, Azienda Ospedaliera Brotzu, Cagliari, Italy, (3)Department of Pedagogy, Psychology and Philosophy, University of Cagliari, Cagliari, Italy, (4)Department of Pediatrics, Azienda Ospedaliera Brotzu, Cagliari, Italy, (5)Section of Child Neuropsychiatry, Dept. of Clinical and Experimental Medicine, University of Sassari, Sassari, Italy
- 12:00 3 123.003 Gamma Synchronization During Face Processing Is Associated with Social Motivation. C. Cuevas¹, A. Naples, C. H. Cheung, L. Mayes and J. C. McPartland, Yale Child Study Center, New Haven, CT
- 10:00 4 123.004 Modulatory Effect of Context on Face Processing in Children with ASD. M. Coffman¹, S. Shultz², W. Jones³, A. Klin² and J. C. McPartland¹, (1)Yale Child Study Center, New Haven, CT, (2)Yale University, New Haven, CT, (3)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA
- 11:00 5 123.005 The Effect of Direct Gaze and Gaze Contingent Social Feedback On Attention Disengagement and Re-Engagement in Young Children with Autism. T. M. Helminen¹, J. K. Hietanen¹, J. M. Leppänen² and A. Kylläinen¹, (1)School of Social Sciences and Humanities / Psychology, University of Tampere, Tampere, Finland, (2)School of Medicine, University of Tampere, Tampere, Finland
- 12:00 6 123.006 Abnormalities in Early Visual Processing of Faces in Autism. C. van den Boomen^{1,2}, J. J. Fahrenfort³ and C. Kemner^{1,2,4}, (1)Dept of Developmental Psychology, Utrecht University, Utrecht, Netherlands, (2)Dept of Experimental Psychology, Helmholtz Institute, Utrecht University, Utrecht, Netherlands, (3)Cognitive Neuroscience Group, Dept of Psychology, University of Amsterdam, Amsterdam, Netherlands, (4)Rudolf Magnus Institute of Neuroscience, Dept of Child and Adolescent Psychiatry, University Medical Centre Utrecht, Utrecht, Netherlands
- 10:00 7 123.007 Alterations of Visual Spatial Frequency Tuning in Autism Spectrum Disorders. F. Pei¹ and A. M. Norcia, Psychology, Stanford University, Stanford, CA
- 11:00 8 123.008 Exploring Integrative Weaknesses in Verbal Adults with ASD: Behavioural Data Supported by EEG. M. Stothers¹ and J. Oram Cardy², (1)The University of Western Ontario, London, ON, Canada, (2)Communication Sciences and Disorders, Western University, Canada, London, ON, Canada
- 12:00 9 123.009 Impaired Feature Integration in Autism Spectrum Disorders Across Visual Hemifields. I. A. Peiker¹, N. David¹, T. Schneider¹, D. Schöttle² and A. K. Engel¹, (1)Department of Neurophysiology and Pathophysiology, University Medical Center Hamburg-Eppendorf, Hamburg, Germany, (2)Department of Psychiatry and Psychotherapy, University Medical Center Hamburg-Eppendorf, Hamburg, Germany

- 10:00 10 123.010 Inhibitory Function Related to Tactile Processing Is Impaired in Children with ASD. N. A. Puts^{1,2}, T. Koriakin³, E. L. Wodka³, M. Tommerdahl⁴, S. H. Mostofsky⁵ and R. A. Edden^{1,2}, (1)The Russell H. Morgan Department of Radiology and Radiological Science, The Johns Hopkins University, Baltimore, MD, (2)F. M. Kirby Center for Functional Brain Imaging, Kennedy Krieger Institute, Baltimore, MD, (3)Kennedy Krieger Institute, Baltimore, MD, (4)University of North Carolina, Chapel Hill, NC, (5)Laboratory for Neurocognitive and Imaging Research, Kennedy Krieger Institute, Baltimore, MD
- 11:00 11 123.011 Voice Processing and Language Impairment in Children with ASD. N. Bruneau¹, O. Rogier², C. Barthélemy¹ and F. Bonnet-Brilhault³, (1)INSERM U930, Université François Rabelais, CHRU de Tours, Tours, France, (2)EPFL, Brain Mind Institute, Lausanne, Switzerland, (3)UMR Inserm U930, Tours, France
- 12:00 12 123.012 The Development of Contour Completion Processes Across Childhood and Adolescence in Autism Spectrum Disorders. T. S. Altschuler^{1,2}, S. Molholm², A. C. Snyder², A. B. Brandwein^{2,3}, N. Russo⁴, H. Gomes⁵ and J. J. Foxe², (1)Dept of Psychology - Program in Cognitive Neuroscience at City College of New York, The Graduate Center - City University of New York, New York, NY, (2)Departments of Pediatrics and Neuroscience, The Sheryl and Daniel R. Tishman Cognitive Neurophysiology Laboratory, Albert Einstein College of Medicine, Bronx, NY, (3)The Graduate Center and Queens College of the City University of New York, New York, NY, (4)Psychology, Syracuse university, Syracuse, NY, (5)Psychology, City College of New York, New York, NY
- 10:00 13 123.013 Early-Stage Visual Processing Abnormalities in Children with ASD and Unaffected Siblings. P. M. Weinger¹, V. Zemon¹, J. Gordon² and L. Soorya³, (1)Ferkau Graduate School of Psychology, Yeshiva University, Bronx, NY, (2)Psychology, Hunter College, New York, NY, (3)Rush University, Chicago, IL
- 11:00 14 123.014 An ERP Investigation of the Acoustic Change Complex in High-Functioning ASD. A. Bhatara^{1,2}, T. Babikian³, E. Laugeson⁴, R. Tachdjian⁵, E. Ballat² and Y. S. Singner², (1)Laboratoire Psychologie de la Perception, Université Paris Descartes, Paris, France, (2)Department of Head and Neck Surgery, UCLA, Los Angeles, CA, (3)Psychiatry and Biobehavioral Sciences, UCLA, Los Angeles, CA, (4)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA, (5)Departments of Medicine and Pediatrics, UCLA, Los Angeles, CA
- 12:00 15 123.015 Atypical ERP Effects During Auditory Processing in Children with Autism Spectrum Disorder. S. E. Schipul¹, F. C. Donkers^{1,2}, G. T. Baranek¹, K. M. Cleary¹ and A. Belger¹, (1)University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)Tilburg University, Tilburg, Netherlands
- 10:00 16 123.016 Missing and Delayed Auditory Responses in Young and Older Children with Autism Spectrum Disorders. J. C. Edgar¹, M. R. Lanza¹, J. F. Monroe¹, S. Y. Khan¹, L. Blaskey¹, K. M. Cannon¹, J. Jenkins¹, S. Qasmieh¹, S. E. Levy² and T. P. Roberts¹, (1)Radiology, Children's Hospital of Philadelphia, Philadelphia, PA, (2)Division of Child Development, Children's Hospital of Philadelphia, Philadelphia, PA
- 11:00 17 123.017 Neurophysiological Evaluation of Acoustic Startle Response in Japanese Children with Autism Spectrum Disorders. H. Takahashi¹, T. Nakahachi¹, A. Moriwaki¹, R. Takei¹, K. Ogino¹, Y. Iida¹, N. Inada¹ and Y. Kamio¹, Department of Child and Adolescent Mental Health, National Center of Neurology and Psychiatry, Japan, National Institute of Mental Health, Kodaira, Tokyo, Japan
- 12:00 18 123.018 Otoacoustic Emissions and Efferent Feedback in ASD. A. E. Luebke¹, P. D. Allen^{2,3}, J. DeSanctis⁴, R. M. Nelson⁴, A. Lord⁴ and L. Bennetto⁴, (1)Biomedical Engineering and Neurobiology & Anatomy, University of Rochester Medical Center, Rochester, NY, (2)University of Rochester Medical Center, Rochester, NY, (3)Neurobiology & Anatomy, University of Rochester Medical Center, Rochester, NY, (4)Clinical and Social Sciences in Psychology, University of Rochester, Rochester, NY

Poster Sessions

124 - Treatments: Early Intervention Trials

9:00 - 13:00 - Banquet Hall

- 10:00 19 124.019 Changes in Rates of Development for Preschool Children with ASD in Two Comprehensive Treatment Programs. S. Odom¹, K. Hume² and B. Boyd³, (1)University of North Carolina, Chapel Hill, NC, (2)University of North Carolina, Chapel Hill, Chapel Hill, NC, (3)University of North Carolina at Chapel Hill, Chapel Hill, NC
- 11:00 20 124.020 Development and Evaluation of the Frankfurt Early Intervention Program. C. M. Freitag¹, K. Teufel, J. Valerian, S. Feineis-Mathews and C. Wilker, Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, Goethe University, Frankfurt, Germany
- 12:00 21 124.021 Early Analysis of the Feasibility and Acceptability of Family Implemented Teacch for Toddlers (FITT). L. Turner-Brown¹, K. Hume² and B. Boyd³, (1)University of North Carolina, Chapel Hill, NC, (2)University of North Carolina, Chapel Hill, Chapel Hill, NC, (3)University of North Carolina at Chapel Hill, Chapel Hill, NC
- 10:00 22 124.022 Evaluating Social Communicative Behaviors Across Treatment Settings for Children with Autism. E. C. Worcester¹, L. Schreibman¹ and A. Stahmer², (1)University of California, San Diego, La Jolla, CA, (2)Rady Children's Hospital, San Diego, San Diego, CA
- 11:00 23 124.023 Initial Results of a Continuous Intervention Program for Children with ASD. S. Kotsopoulos^{1,2}, I. Florou³, A. Georgiou³, M. Gyftogianni³, A. Kotsopoulos⁴, G. Toulitatos⁵ and A. Troupou³, (1)Day Centre for Children with Developmental Disorders, Messolonghi, Greece, (2)EPSYPEA, Messolonghi, Greece, (3)Day Centre for Children with Developmental Disorders, EPSYPEA, Messolonghi, Greece, (4)Day Centere for Children with Developmental Disorders, Thechnological Institute of Patras, Messolonghi, Greece, (5)Day Centre for Children with Developmental Disorders, EPSYPEA, Messolonghi, Greece
- 12:00 24 124.024 Outcome of Children with Autism and Intellectual Impairment Following an Intensive Treatment Program Including Edt. R. Blanc¹, INSERM U930, Veretz, France
- 10:00 25 124.025 Six-Months Clinical Outcomes Following Treatment as Usual (TAU) for Autism: Focus on Language and Communication. A. Narzisi¹, F. Muratori² and IDIA Consortium³, (1)University of Pisa - Stella Maris Scientific Institute, Pisa, Italy, (2)University of Pisa - Stella Maris Scientific Institute, Pisa, Italy, (3)Italian Health Services for Autism, Italy, Italy
- 11:00 26 124.026 A Longitudinal Study on TEACCH Program in Preschool Children with Autism Spectrum Disorder. L. D'Elia¹, G. Valeri², S. Vicari¹, F. Sonnino¹ and A. Mammone³, (1)Pediatric Hospital Bambino Gesù, Rome, Italy, (2)Children's Hospital Bambino Gesù, Roma, Italy, (3)Paeditric Hospital Bambino Gesù, Rome, Italy
- 12:00 27 124.027 Comparing Applied Behaviour Analysis and Ipad Autism Applications; Early Social Skills Interventions for Young Children with Low Functioning Autism. J. R. Solomon¹, School of Social Sciences and Psychology, University of Western Sydney, Sydney, Australia
- 10:00 28 124.028 Peer-Mediated Intervention in Young Children with Autism: Stay, Play, Talk. A. B. Barber¹, R. W. Saffo², L. D. Craft³ and H. Goldstein⁴, (1)University of Alabama - ASD Clinic, Tuscaloosa, AL, (2)Communicative Disorders, University of Alabama, Tuscaloosa, AL, (3)University of Alabama, Tuscaloosa, AL, (4)The Ohio State University, Columbus, OH

- 11:00 ♦29 124.029 Language Development in Preschoolers with ASD: A Comparison of Outcomes Across Educational Settings. J. Atick¹, C. S. Ghilain², A. Gutierrez³ and M. Alessandri⁴, (1)University of Miami, Miami, FL, (2)5665 Ponce De Leon Blvd., University of Miami, Miami, FL, (3)Psychology, Florida International University, Miami, FL, (4)Psychology and Pediatrics, University of Miami, Coral Gables, FL
- 12:00 30 124.030 Playing at Preschool: Engineering Playtime to Address Core Deficits. Y. C. Chang¹, S. Patterson¹ and C. Kasari², (1)University of California, Los Angeles, Los Angeles, CA, (2)University of California Los Angeles, Los Angeles, CA
- 10:00 31 124.031 Translating a Social Communication Intervention for Use in Authentic Education Settings. R. Landa¹, Kennedy Krieger Institute, Baltimore, MD
- 11:00 32 124.032 Evaluating the Effectiveness of Early Interventions On Social Communication Outcomes for Young Children with Autism. J. D. Bryant¹, L. H. Hampton, M. Y. Roberts and A. P. Kaiser, Vanderbilt University, Nashville, TN
- 12:00 33 124.033 Promoting Social Responsive Between Primary Caregivers and Children with Autism. E. M. M. Maher¹, Faculty of Education and Social Work, University of Sydney, Sydney, Australia
- 10:00 34 124.034 Differential Effects of Video Modeling As a Function of Targeted Social Behavior for Children with Autism. J. B. Plavnick¹, M. C. MacFarland², S. J. Ferreri³ and S. Hur¹, (1)Michigan State University, East Lansing, MI, (2)Michigan State University, Livonia, MI, (3)Counseling, Educational Psychology, and Special Education, Michigan State University, East Lansing, MI
- 11:00 35 124.035 Coordinated Positive Engagement During Social Interactions in Infancy: An Early Identification and Intervention Study. J. Bradshaw^{1,2}, A. Navab^{1,2}, S. Lucyga^{1,2}, L. K. Koegel^{1,2} and R. L. Koegel^{1,2}, (1)University of California, Santa Barbara, Santa Barbara, CA, (2)Koegel Autism Center, Santa Barbara, CA

Poster Sessions

125 - Core Deficits: Social Understanding

9:00 - 13:00 - Banquet Hall

- 10:00 ▶ 36 125.036 Psychometrics of the Chinese Mandarin Version of the Social Responsiveness Scale (SRS) in a Taiwanese Population of Children Aged 6-8 Years. C. L. Chang¹, L. C. Lee², P. C. Tsai², R. Harrington², I. T. Li³ and F. W. Lung⁴, (1)Psychiatry, Kaohsiung Armed Forces General Hospital, Kaohsiung, Taiwan, (2)Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (3)Calo Hospital, PingTung, Taiwan, (4)Taipei City Hospital, Taipei, Taiwan
- 11:00 37 125.037 Observation, Parent, and Self Report of Social Engagement in Adolescents with ASD. K. M. Burner¹, F. Orlich², R. Oti², R. Montague², R. Poole², R. Bernier¹, B. H. King³, C. Lord⁴ and C. Kasari⁵, (1)University of Washington, Seattle, WA, (2)Seattle Children's Research Institute, Seattle, WA, (3)University of Washington and Seattle Children's Hospital, Seattle, WA, (4)Center for Autism and the Developing Brain, Weill Cornell Medical College, White Plains, NY, (5)University of California Los Angeles, Los Angeles, CA
- 12:00 38 125.038 Being Imitated and Empathy for Pain in Adults with High Functioning Autism. J. R. Wiersema¹, L. De Coster² and M. Brass², (1)Department of Experimental Clinical and Health Psychology, Ghent University, Ghent, Belgium, (2)Experimental Psychology, Ghent University, Ghent, Belgium

Poster Sessions

126 - Cognition and Behavior I: Sensory-Motor Processing

9:00 - 13:00 - Banquet Hall

- 10:00 39 126.039 A Dynamic Approach to the Audiovisual Integration of Socio-Linguistic Information. M. Segers¹ and J. M. Bebko, Department of Psychology, York University, Toronto, ON, Canada
- 11:00 40 126.040 Assessing the Development of Visual Shape Perception in Autism: Influence of Local Information. A. Perreault^{1,2}, C. Habak³, L. Mottron⁴, F. Lepore⁵ and A. Bertone^{1,6}, (1)Perceptual Neuroscience Laboratory for Autism and Development (PNLab), Montreal, QC, Canada, (2)Department of Psychology, Centre de Recherche en Neuropsychologie et Cognition (CERNEC), Université de Montréal, Montreal, QC, Canada, (3)Centre de Recherche, Institut Universitaire de Gériatrie de Montréal, Montreal, QC, Canada, (4)Service de recherche, Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada, (5)Department of Psychology, Centre de Recherche en Neuropsychologie et Cognition (CERNEC), Université de Montréal, Montréal, QC, Canada, (6)School / Applied Child Psychology, Department of Educational and Counselling Psychology, McGill University, Montreal, QC, Canada
- 12:00 41 126.041 Associations Between Autistic Traits, Sensory Processing Abnormalities and Anxiety Symptoms in Adults. J. Horder¹, C. E. Wilson², M. A. Mendez³, D. De La Harpe Golden³ and D. G. Murphy⁴, (1)Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College London, London, United Kingdom, (2)King's College, London, London, United Kingdom, (3)PO Box 50, Forensic and Neurodevelopmental Sciences, King's College London, London, United Kingdom, (4)Forensic and Neurodevelopmental Sciences Department, Institute of Psychiatry, King's College London, London, United Kingdom
- 10:00 42 126.042 Audiovisual Speech Perception in Autism. R. S. You¹, W. Semiclaes², D. Rider³ and N. Chabane⁴, (1)Laboratoire ARP, Université Paris Diderot, Paris, France, (2)Laboratoire Psychologie de la Perception, CNRS, Paris, France, (3)RISC, ENS, CNRS, Paris, France, (4)INSERM Unity 1000, Robert Debre Hospital, Paris, France
- 11:00 43 126.043 Cognitive and Behavioural Comorbidity of Social and Motor Difficulties in Primary School Age Children. L. Kenny¹, E. L. Hill² and A. Hamilton¹, (1)School of Psychology, University of Nottingham, Nottingham, United Kingdom, (2)Psychology Department, Goldsmiths University, London, United Kingdom
- 12:00 44 126.044 Deficit in Auditory Sensory Memory in Adults with High Functioning Autism. M. Erviti¹, L. Demany¹, M. Bouvard^{1,2}, C. Galéra², A. Amestoy² and C. Semal¹, (1)UMR CNRS 5287 INCIA, Université de Bordeaux, Bordeaux, France, (2)CRA Aquitaine, CH Charles Perrens, Bordeaux, France
- 10:00 45 126.045 Elevated Motion Coherence Thresholds for Slow Stimuli in Individuals with Autism. C. Manning¹, T. Charman², D. Aagten-Murphy³ and E. Pellicano¹, (1)Centre for Research in Autism & Education, London, United Kingdom, (2)Centre for Research in Autism & Education, Institute of Education, London, United Kingdom, (3)University of Florence, Pisa, Italy
- 11:00 46 126.046 Evidence of Inaccurate and Inefficient Visual Speech Perception in Children with Autism Spectrum Disorders. T. Woynaroski¹, R. A. Stevenson², J. K. Siemann³, L. E. Dowell⁴, J. H. Foss-Feig⁵, M. Rivera⁶ and M. T. Wallace³, (1)Vanderbilt University, Thompsons Stn, TN, (2)Vanderbilt University Medical Center, Nashville, TN, (3)Vanderbilt University, Nashville, TN, (4)Neuroscience, Oberlin College, Oberlin, OH, (5)Child Study Center, Yale University, New Haven, CT, (6)Neuroscience, Vanderbilt University, Nashville, TN
- 12:00 47 126.047 Hearing in Noise Perception in ASD. L. Bennetto¹, P. D. Allen², J. DeSanctis¹, R. M. Nelson¹, A. Lord¹ and A. E. Luebke², (1)Clinical and Social Sciences in Psychology, University of Rochester, Rochester, NY, (2)University of Rochester Medical Center, Rochester, NY
- 10:00 48 126.048 Increasing the Accuracy of Detection of Audio-Visual Integration Differences in Autism Spectrum Disorders. J. M. Bebko¹, S. Oczak¹, L. N. Hancock¹, S. M. Brown¹ and J. J. A. Holden², (1)Psychology, York University, Toronto, ON, Canada, (2)Queen's University, Kingston, ON, Canada
- 11:00 49 126.049 Intact Auditory Processing But Impaired Speech Perception in Adolescents with Autism Spectrum Disorder and Early Language Delay. B. Boets^{1,2}, J. Steyaert^{3,4}, J. S. Verhoeven⁵, N. Rommel⁶, I. Noens^{4,7} and J. Wouters⁸, (1)Child Psychiatry, KU Leuven, Leuven, Belgium, (2)Leuven Autism Research (LAuRes), KU Leuven, Leuven, Belgium, (3)Child Psychiatry, University of Leuven (KU Leuven), Leuven, Belgium, (4)Leuven Autism Research (LAuRes), University of Leuven (KU Leuven), Leuven, Belgium, (5)Radiology, KU Leuven, Leuven, Belgium, (6)Neurosciences, ExpORL, KU Leuven, Leuven, Belgium, (7)Parenting and Special Education Research Unit, University of Leuven (KU Leuven), Leuven, Belgium, (8)ExpORL, KU Leuven, Leuven, Belgium
- 12:00 50 126.050 Interpersonal Motor Interactions: Do Individuals with an Autism Spectrum Disorder Adjust? C. M. Glazebrook¹, D. A. Gonzalez² and J. L. Lyons³, (1)Kinesiology and Recreation Management, University of Manitoba, Winnipeg, MB, Canada, (2)Kinesiology, University of Waterloo, Waterloo, ON, Canada, (3)Kinesiology, McMaster University, Hamilton, ON, Canada
- 10:00 51 126.051 Is Atypical Multisensory Integration in Autism Specific to Socially Contingent Information? V. A. Bao^{1,2}, L. Mottron³, V. M. Doobay^{1,2} and A. Bertone^{1,2,3}, (1)School / Applied Child Psychology, Department of Educational and Counselling Psychology, McGill University, Montreal, QC, Canada, (2)Perceptual Neuroscience Laboratory for Autism and Development (PNLab), Montreal, QC, Canada, (3)Service de recherche, Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada
- 11:00 52 126.052 Motor Impairment in Autism Spectrum Disorders. J. Perrin¹, C. Laranjeira², C. Buchert², M. Bouvard², T. Maffre¹, M. Huc-Chabrolle³, S. Roux⁴ and C. Le Menn Tripi⁵, (1)CRA Midi-Pyrénées, CHU de Toulouse, Toulouse, France, (2)CRA Aquitaine, CH Charles Perrens, Bordeaux, France, (3)CRA Centre, CHRU de Tours, Tours, France, (4)UMR Inserm U930, Tours, France
- 12:00 53 126.053 Multimodal Exploration in Children with Autism. A. Hellendoorn¹, F. Altena¹, L. Wijnroks¹, P. Leseman¹ and E. Van Daalen², (1)Department of Educational Sciences, Utrecht University, Utrecht, Netherlands, (2)Child and Adolescent Psychiatry, University Medical Centre, Utrecht, Netherlands
- 10:00 54 126.054 Multisensory Integration of Audiovisual Speech in Noise in Autism Spectrum Disorders. M. T. Wallace¹, A. A. Shuster¹, J. K. Siemann¹, T. Woynaroski², S. E. Greenberg¹, S. M. Camarata³ and R. A. Stevenson⁴, (1)Vanderbilt University, Nashville, TN, (2)Vanderbilt University, Thompsons Stn, TN, (3)Vanderbilt University Kennedy Center, Nashville, TN, (4)Vanderbilt University Medical Center, Nashville, TN

- 11:00 55 126.055 Strategies for Social and Nonsocial Visual Information Processing in Autistic Children and Adolescents. J. Guy^{1,2}, C. Archambault¹, C. Habak^{3,4}, H. R. Wilson⁵, L. Mottron⁶ and A. Bertone^{6,7,8}, (1)Perceptual Neuroscience Laboratory for Autism & Development (PNLab), Montreal, QC, Canada, (2)Integrated Program in Neuroscience, McGill University, Montreal, QC, Canada, (3)Visual Perception and Psychophysics Lab, University of Montreal, Montreal, QC, Canada, (4)Centre de Recherche, Institut Universitaire de Gériatrie de Montréal, Montreal, QC, Canada, (5)Center for Vision Research, York University, Toronto, ON, Canada, (6)Service de Recherche, Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada, (7)Perceptual Neuroscience Laboratory for Autism and Development (PNLab), Montreal, QC, Canada, (8)School / Applied Child Psychology, Department of Educational and Counselling Psychology, McGill University, Montreal, QC, Canada
- 12:00 56 126.056 Tactile Reactivity in Children With and Without Autism Spectrum Disorders. T. Tavassoli¹, K. Bellesheim², M. Tommerdahl³, J. Holden³, D. Grodberg⁴, A. Kolevzon², L. Bush⁵, S. Soffes⁶ and J. D. Buxbaum⁶, (1)Psychiatry, Seaver Autism Center, Mount Sinai School of Medicine, New York, NY, (2)Seaver Autism Center for Research and Treatment, Mount Sinai School of Medicine, New York, NY, (3)University of North Carolina, Chapel Hill, NC, (4)Mount Sinai School of Medicine, New York, NY, (5)Seaver Autism Center, New York, NY, (6)Psychiatry, Mount Sinai School of Medicine, New York, NY
- 10:00 57 126.057 The Influence of Distraction on Discrimination and Visuomotor Tracking in Sensory Deficient Processing & Autistic Children. J. A. Anguera¹, C. Rolle, S. Desai, A. Aitken, J. Gibbons, J. Harris, A. Gazzaley and E. Marco, University of California San Francisco, San Francisco, CA
- 11:00 58 126.058 The Relationship Between Repetitive Behaviors and Sensory Behaviors in Children with Autism Spectrum Disorders. E. Drumm¹, E. A. Kelley², L. O'Connell² and A. S. Li², (1)University of Toronto, Toronto, ON, Canada, (2)Queen's University, Kingston, ON, Canada
- 12:00 59 126.059 Time Perception in the Autism Spectrum Disorders Across Sensory Modalities. A. Lambrechts¹, S. B. Gaigg¹ and K. Yarrow², (1)Autism Research Group, City University London, London, United Kingdom, (2)City University London, London, United Kingdom

Poster Sessions
127 - Genetic Factors in ASD

9:00 - 13:00 - Banquet Hall

- 10:00 60 127.060 A Neurogenomics Approach to Study the Contribution of AUTS2 to Autism. L. M. Feldman¹, G. Monderer-Rothkoff¹, E. Ben-David¹, E. Meshorer¹, M. Nissim-Rafinia¹, M. Groszer² and S. Shifman¹, (1)The Hebrew University of Jerusalem, Jerusalem, Israel, (2)UMR-839-INSERM-UPMC, Institut du Fer a Moulin, Paris, France
- 11:00 61 127.061 Analysis of Cognitive Performance, Social Functioning, and Body Mass Index As Quantitative Rather Than Dichotomous Traits in Individuals with Deletion 16p11.2. A. Moreno De Luca^{1,2,3}, P. T. Orr^{2,3}, S. M. Myers^{1,3}, T. D. Challman^{1,3}, D. W. Evans^{2,3,4}, R. P. Goin-Kochel⁵, E. Hanson⁶, R. Bernier⁷, L. Green-Snyder⁸, J. E. Spiro⁹, W. Chung¹⁰, J. N. Constantino¹¹ and D. H. Ledbetter^{2,3}, (1)Pediatrics, Geisinger Health System, Danville, PA, (2)Genomic Medicine, Geisinger Health System, Danville, PA, (3)Program in Neuroscience, Bucknell University, Lewisburg, PA, (4)Psychology, Bucknell University, Lewisburg, PA, (5)Pediatrics,

- Psychology Section, Baylor College of Medicine, Houston, TX, (6)Children's Hospital Boston, Boston, MA, (7)University of Washington, Seattle, WA, (8)Developmental Medicine, Boston Children's Hospital, Boston, MA, (9)Simons Foundation, New York, NY, (10)Columbia University Medical Center, New York, NY, (11)Washington University School of Medicine, Saint Louis, MO
- 12:00 62 127.062 Cell Type Enrichment Analysis to Identify Cellular Targets for Autism Spectrum Disorder. X. Xu¹, A. Nehorai² and J. Dougherty³, (1)Washington University, St. Louis, MO, (2)Washington University, St. Louis, MO, (3)Genetics, Psychiatry, Washington University, St. Louis, MO
- 10:00 63 127.063 Combined Analysis of Exome Sequencing Points Toward a Major Role for Transcription Regulation During Brain Development in Autism. E. Ben-David¹ and S. Shifman, The Hebrew University of Jerusalem, Jerusalem, Israel
- 11:00 64 127.064 De Novo Mutation of the Dopamine Transporter (DAT) Gene in Autism Reveals a Novel Component of ASD Pathogenesis. N. G. Campbell¹, P. J. Hamilton, K. B. Erreger, A. N. Belovich, H. Matthies, A. Galli and J. S. Sutcliffe, Molecular Physiology & Biophysics and Vanderbilt Brain Institute, Vanderbilt University, Nashville, TN
- 12:00 65 127.065 Disentangling the Heterogeneity of Autism Spectrum Disorders: The Identification of 'Signature' Behavioural Phenotypes Derived From Specific Genetic Syndromes. H. Bruining¹, R. J. Eijkemans², M. J. Kas², S. R. Curran³, J. A. Vorstman⁴ and P. F. Bolton⁵, (1)Psychiatry, Brain Centre Rudolf Magnus, Amsterdam, Netherlands, (2)Brain Centre Rudolf Magnus, Utrecht, Netherlands, (3)Kings College London, London, United Kingdom, (4)Psychiatry, Brain Centre Rudolf Magnus, Utrecht, Netherlands, (5)Institute of Psychiatry, King's College London, London, United Kingdom
- 10:00 66 127.066 From Autism to Schizophrenia: Study of the Genetic Mechanisms Underlying Brain Dysfunction and Structural Phenotypes in Schizophrenia and Autistic Spectrum Disorders. the Ausz [Eucan] Project. ERA-NET Neuron. M. Fatjo-Vilas¹, L. Pina-Camacho², M. Parellada², L. Boada², C. Prats¹, G. A. Rouleau³, K. Nave⁴, M. O. Krebs⁵ and L. Fañanas¹, (1)Universitat de Barcelona. Unitat d'Antropologia, Facultat de Biologia, Barcelona, Spain, (2)Child and Adolescent Psychiatry Department, CIBERSAM, Instituto de Investigación Sanitaria Gregorio Marañón, IISGM, Hospital General Universitario Gregorio Marañón, Madrid, Spain, (3)Université de Montréal. CHUM Research Centre, Montreal, QC, Canada, (4)Max Planck Society; Max Planck Institute for Experimental Medicine; Dpt. Neurogenetics, Goettingen, Germany, (5)INSERM Université Paris Descartes, Hôpital Sainte-Anne Laboratoire de Physiopathologie de Maladies Psychiatriques, LPMP, Paris, France
- 11:00 67 127.067 Looking to the Left or Looking to the Right? Revisiting Visual Scanning of Faces in Young Children with ASD. Q. Guillon¹, S. Baduel¹, N. Hadjikhani² and B. Roge¹, (1)Laboratoire Octogone / CERPP, University of Toulouse, Toulouse, France, (2)EPFL, Lausanne, Switzerland
- 12:00 68 127.068 Evidence Uptake in Early Identification of Autism in Community-Based Settings. K. Shikako-Thomas¹, A. Yussuf², D. Maynard³, R. Birnbaum⁴ and M. Elsabbagh⁵, (1)School of Physical and Occupational Therapy, McGill University, Montreal, QC, Canada, (2)Psychiatry, McGill University, Montreal, QC, Canada, (3)Canadian Association of Pediatric Health Centers, Ottawa, ON, Canada, (4)Montreal Children's Hospital, Montreal, QC, Canada, (5)Department of Psychiatry, McGill University, Montreal, QC, Canada

- 10:00 69 127.069 Identification of Rare Recurrent Genetic Variants in High-Risk ASD Families and Their Role in a Large ASD Case / Control Population. C. Hensel¹, N. Matsunami², D. D. Hadley³, B. Christensen⁴, C. Kim³, K. Thomas³, R. Pellegrino³, J. Stevens², L. Baird², B. Otterud², K. S. Ho¹, T. S. Varvil², T. Leppert², C. G. Lambert⁴, M. Leppert² and H. Hakonarson³, (1)Lineagen, Inc., Salt Lake City, UT, (2)Human Genetics, University of Utah, Salt Lake City, UT, (3)Center for Applied Genomics, Children's Hospital of Philadelphia, Philadelphia, PA, (4)Golden Helix, Inc., Bozeman, MT
- 11:00 70 127.070 Insights Into the Role of Contactin 4, -5 and -6 in Autism Spectrum Disorders. I. Cloez-Tayarani¹, O. Mercati¹, A. Danckaert², G. André-Leroux³, M. Bellinzoni³, L. Gouder¹, K. Watanabe⁴, Y. Shimoda⁵, R. Delorme⁶, M. Leboyer⁷ and T. Bourgeron⁸, (1)Human Genetics and Cognitive Functions, Institut Pasteur CNRS URA 2182, Paris, France, (2)Imagopole, Institut Pasteur, Paris, France, (3)Institut Pasteur CNRS UMR3528, Paris, France, (4)Nagaoka National College of Technology, Nagaoka, Japan, (5)Department of Bioengineering, Nagaoka University of Technology, Nagaoka, Japan, (6)Hôpital Robert Debré, PARIS, France, (7)INSERM U 955, Hôpital Chenevier-Mondor, Créteil, France, (8)Institut Pasteur CNRS URA 2182, Paris Diderot University, Paris, France
- 12:00 71 127.071 Simons VIP: Expanding the Characterization of 16p11.2 Deletion Syndrome. E. Hanson^{1,2}, L. Green-Snyder², R. P. Goin-Kochel³, F. K. Miller², J. E. Olson², K. Porche², A. V. Snow² and R. Bernier¹, (1)Harvard Medical School, Boston, MA, (2)Developmental Medicine, Boston Children's Hospital, Boston, MA, (3)Pediatrics, Psychology Section, Baylor College of Medicine, Houston, TX, (4)University of Washington, Seattle, WA
- 10:00 72 127.072 The Autism Sequencing Consortium: Prospective Genetic Data Sharing in Autism Spectrum Disorders. J. D. Buxbaum¹, M. J. Daly², B. Devlin³, T. Lehner⁴, M. W. State⁵ and A. Autism Sequencing Consortium⁶, (1)Psychiatry, Mount Sinai School of Medicine, New York, NY, (2)Broad Institute, Boston, MA, (3)Department of Human Genetics, University of Pittsburgh, Pittsburgh, PA, (4)National Institute of Mental Health, Bethesda, MD, (5)Genetics, Yale University School of Medicine, New Haven, CT, (6)Mount Sinai School of Medicine, New York, NY, New York, NY
- 11:00 73 127.073 ASD Associated Promoter Variants in the CNTNAP2 Gene Modulate Gene-Expression and Language Development. M. Kopp¹, A. Chiochetti¹, E. Duketis¹, A. Voran², U. Graab³, J. Meyer⁴, S. M. Klauk⁵, S. Fulda³ and C. M. Freitag⁶, (1)Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, Goethe-University, Frankfurt am Main, Germany, (2)Department of Child and Adolescent Psychiatry, Saarland University, Homburg, Germany, (3)Institute for Experimental Cancer Research in Paediatrics, Goethe-University, Frankfurt am Main, Germany, (4)Department of Neurobehavioral Genetics, Institute of Psychobiology, University of Trier, Trier, Germany, (5)Division of Molecular Genome Analysis, German Cancer Research Center (DKFZ), Heidelberg, Germany, (6)Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, Goethe University, Frankfurt, Germany
- 12:00 74 127.074 X-Linked Imprinted Genes and Sex-Ratio Bias in Autistic Spectrum Disorders. M. J. O'Neill¹, Dept. of Molecular and Cell Biology, University of Connecticut, Storrs, CT
- 10:00 75 127.075 Exome Sequencing of a Multiplex Family with Autistic Spectrum Disorder. B. Tawil¹, A. H. Adi¹, M. Aldosari², M. Nester³, H. M. ALDhalaan³, E. Naim¹, D. Monies¹, M. Ghannam⁴, B. F. Meyer¹ and N. Al Tassan¹, (1)Department of Genetics, Research Center, King Faisal Specialist Hospital and Research Center, Riyadh, Saudi Arabia, (2)Mercy Pediatric Neurology and Psychiatry Center, Des Moines, IA, (3)Neurosciences, King Faisal Specialist Hospital and Research Center, Riyadh, Saudi Arabia, (4)Centre for Autism Research, King Faisal Specialist Hospital & Research Centre, Riyadh, Saudi Arabia
- 11:00 76 127.076 Testing the Molecular Genetic Basis of Transmission of Autism Risk by Healthy Mothers. J. Dougherty¹, H. Yuan¹ and J. N. Constantino², (1)Washington University, St. Louis, MO, (2)Washington University School of Medicine, Saint Louis, MO
- 12:00 77 127.077 The Role of Chromosome X in ASD Sex Bias. J. Gockley¹, A. J. Willsey¹, J. N. Constantino², S. J. Sanders¹ and M. W. State¹, (1)Genetics, Yale University School of Medicine, New Haven, CT, (2)Washington University School of Medicine, Saint Louis, MO
- 10:00 78 127.078 Targeted Massively Parallel Sequencing of GWAS Association Peaks in a Case and Control Cohort Identifies Rare Autism Spectrum Disorder Risk Variants. J. Gilbert¹, A. J. Griswold¹, D. J. Hedges², R. H. Chung¹, J. A. Rantus¹, P. Whitehead¹, I. Konidari¹, W. Hulme¹, S. H. Slifer¹, J. Jaworski¹, S. M. Williams³, R. Menon⁴, M. L. Cuccaro⁵, E. R. Martin⁶, J. L. Haines⁷, J. P. Hussman⁸ and M. A. Pericak-Vance⁶, (1)Hussman Institute for Human Genomics, University of Miami, Miami, FL, (2)Department of Internal Medicine, The Ohio State University, Columbus, OH, (3)Dartmouth College, Hanover, NH, (4)University of Texas Medical Branch, Galveston, TX, (5)John P. Hussman Institute for Human Genomics, University of Miami Miller School of Medicine, Miami, FL, (6)Hussman Institute for Human Genomics, University of Miami Miller School of Medicine, Miami, FL, (7)Center for Human Genetics Research, Vanderbilt University, Nashville, TN, (8)Hussman Foundation, Ellicott City, MD
- 11:00 79 127.079 Molecular Phenotypes Associated with Total Cerebral Volume in Boys with Autism Spectrum Disorders. B. S. Stamova¹, Y. Tian¹, C. W. Nordahl², M. D. Shen³, S. J. Rogers³, D. G. Amaral³ and F. R. Sharp¹, (1)Neurology, University of California Davis Medical Center; M.I.N.D. Institute, Sacramento, CA, (2)M.I.N.D. Institute and Department of Psychiatry and Behavioral Sciences, University of California Davis Medical Center, Sacramento, CA, (3)Psychiatry and Behavioral Sciences, M.I.N.D. Institute; University of California at Davis, Sacramento, CA
- 12:00 80 127.080 Evidence of a Maternally Acting Gene Allele (MAGA) for Autism in a Second Dataset in a Small Region of Chromosome 3p24.3. W. G. Johnson¹, E. S. Stenroos² and S. Buyske³, (1)UMDNJ-RWJMS, Short Hills, NJ, (2)Neurology, UMDNJ-RWJMS, Piscataway, NJ, (3)Rutgers University, Piscataway, NJ
- 10:00 81 127.081 The DRD3 Gene and Striatum in Autism Spectrum Disorder (ASD). W. Staal¹, M. Langen², S. C. V. Dijk³ and S. Durston², (1)Cognitive Neuroscience, Radboud University, Nijmegen, Netherlands, (2)Rudolf Magnus Institute of Neuroscience, University Medical Center Utrecht, Utrecht, Netherlands, (3)UMC Utrecht Department of Psychiatry, Utrecht, Netherlands
- 11:00 82 127.082 Identifying Underlying Disease Mechanisms in Autism Using iPSC-Based Models of Neurodevelopment. D. M. Dykxhoorn^{1,2}, B. A. DeRosa^{1,2}, J. M. Van Baaren¹, J. M. Lee³, M. L. Cuccaro^{1,2}, J. M. Vance^{1,2} and M. A. Pericak-Vance^{2,3}, (1)John P. Hussman Institute for Human Genomics, University of Miami Miller School of Medicine, Miami, FL, (2)Dr. John T. Macdonald Foundation Department of Human Genetics, University of Miami Miller School of Medicine, Miami, FL, (3)Hussman Institute for Human Genomics, University of Miami Miller School of Medicine, Miami, FL
- 12:00 83 127.083 Maternal Interstitial 15q-11q13 Duplication Is Sufficient to Produce and Autism Phenotype. N. Urraca¹, UTHSC, Memphis, TN
- 10:00 84 127.084 Is Sensory Responsiveness an Endophenotype of Autism Spectrum Disorders? C. L. Hilton¹ and C. L. Klover², (1)Washington University, St. Louis, MO, (2)Occupational Therapy, Washington University School of Medicine, St. Louis, MO

- 11:00 85 127.085 Multiple Rare Genetic Variants Can Deregulate Common Pathways in Autism Spectrum Disorders. I. Cusco^{1,2,3}, B. Rodríguez-Santiago⁴, J. Santoyo-Lopez^{5,6}, M. Rigau¹, G. Aznar Lain⁷, M. Codina^{1,2,3}, A. Homs^{1,2,3}, A. Gutiérrez^{1,2,3} and L. A. Pérez-Jurado^{1,2,3}, (1)Departament de Ciències Experimentals i de la Salut, Universitat Pompeu Fabra, Barcelona, Spain, (2)The Centre for Biomedical Network Research on Rare Diseases (CIBERER), Barcelona, Spain, (3)Instituto de Investigación Sanitaria IMIM-Hospital del Mar, Barcelona, Spain, (4)Research and Development, Quantitative Genomic Medicine Laboratories, S.L. (qGenomics), Barcelona, Spain, (5)Andalusian Human Genome Sequencing Centre (CASEGH), Sevilla, Spain, (6)Medical Genome Project (MGP), Sevilla, Spain, (7)Servei de Pediatria, Hospital del Mar-Parc de Salut Mar, Barcelona, Spain
- 12:00 86 127.086 Does Inhibitory Load Affect Event-Based Prospective Memory Performance in Autism Spectrum Disorder? M. Altgassen^{1,2} and A. D. Kohn³, (1)Department of Psychology, Technische Universität Dresden, Dresden, Germany, (2)Donders Institute for Brain, Cognition and Behaviour, Radboud University, Nijmegen, Netherlands, (3)Department of Psychiatry and Psychotherapy, Carl Gustav Carus University Hospital, Technische Universität Dresden, Dresden, Germany
- 10:00 87 127.087 Play in Mother-Child Interaction: Comparison Between Children with Autism Spectrum Disorder, Children with Down Syndrome and Children with Typical Development. A. Bentenuto¹, S. Riccadonna², C. Furlanello³ and P. Venuti⁴, (1)Department of Cognitive Sciences and Education, University of Trento, Rovereto, Italy, (2)Bruno Kessler Foundation FBK, Trento, Italy, (3)FBK - Fondazione Bruno Kessler, Trento, Italy, (4)University of Trento, Trento, Italy
- 11:00 88 127.088 What Do 'Social Communication' Abilities of Preschool Children with ASD Look Like? A Qualitative Case Study. B. M. Di Rezze¹, M. Cousins², P. Rosenbaum¹, L. Zwaigenbaum³, M. J. C. Hidecker⁴, M. Law¹ and M. Szatmari⁵, (1)McMaster University, Hamilton, Canada, (2)Can Child Centre for Child Health Community Research, Hamilton, ON, Canada, (3)Glenrose Rehabilitation Hospital, University of Alberta, Edmonton, AB, Canada, (4)University of Central Arkansas, Conway, AR, (5)Offord Centre for Child Studies & McMaster University, Hamilton, ON, Canada
- 12:00 89 127.089 Language Abilities and Traits of Autism Are Aetiologically Distinct: Evidence From a Community-Based Twin Study of 12-Year-Olds. M. J. Taylor¹, T. Charman², E. Robinson³, P. S. Dale⁴ and A. Ronald⁵, (1)25 Woburn Square, Institute of Education, London, United Kingdom, (2)Centre for Research in Autism & Education, Institute of Education, London, United Kingdom, (3)Analytic and Translational Genetics Unit, Massachusetts General Hospital / Department of Medicine, Harvard School of Medicine, Boston, MA, (4)UNM Speech & Hearing Sciences, University of New Mexico, Albuquerque, NM, (5)Birkbeck College, London, United Kingdom
- 10:00 90 127.090 Genetic Landscape of Autism: From a Novel Search Engine for Pubmed. J. Y. Jung¹, T. F. DeLuca, T. Nelson and D. P. Wall, Harvard Medical School, Boston, MA
- 11:00 91 127.091 Inherited Rare Variants in Autism: Whole Exome Sequencing in Multiplex and Singleton Families. C. Toma¹, B. Torrico¹, A. Hervas², A. Tristán¹, R. Valdés-Mas³, N. Balmaña², M. Maristany⁴, V. Padillo⁴, P. Romarís², X. S. Puente³, M. Bayés⁵ and B. Cormand¹, (1)Dept of Genetics, University of Barcelona, Barcelona, Spain, (2)Hospital Mutua de Terrassa, Barcelona, Spain, (3)Dept of Biochemistry and Molecular Biology, University of Oviedo-IUOPA, Oviedo, Spain, (4)Developmental Disorders Unit (UETD), Hospital Sant Joan de Déu, Barcelona, Spain, (5)National Center for Genomic Analysis (CNAG), Barcelona, Spain
- 12:00 92 127.092 Maternal Genetic Effects on Autism Risk: Results From the Early Markers for Autism (EMA) Study. L. A. Weiss¹, G. Desachy², K. Tsang² and L. A. Croen³, (1)Psychiatry, Inst. for Human Genetics, UCSF, San Francisco, CA, (2)Psychiatry and Institute for Human Genetics, UCSF, San Francisco, CA, (3)Kaiser Permanente Division of Research, Oakland, CA
- 10:00 93 127.093 Glutamatergic Pathway and Axonal Guidance Signaling Genes As Candidate for ASD Etiology. C. M. Ribeiro¹, A. L. B. Martins², V. N. Takahashi¹, D. P. Moreira¹, K. Griesi-Oliveira¹, C. Rosenberg¹, E. Vadasz³ and M. R. Passos-Bueno¹, (1)Department of Genetics and Evolutionary Biology, University São Paulo, Biosciences Institute, São Paulo, Brazil, (2)UNESP, São Jose do Rio Preto, Brazil, (3)Department of Psychiatry Faculty of Medicine, Institute of Psychiatry, Hospital of the Faculty of Medicine, University of São Paulo, São Paulo, Brazil
- 11:00 94 127.094 Coalitional Games and the Relevance of Gene Expression in Autism Spectrum Disorder. F. J. Esteban¹, L. Díaz-Beltrán² and D. P. Wall³, (1)Experimental Biology, University of Jaen, Jaen, Spain, (2)Experimental Biology, Universidad de Jaen, Jaen, Spain, (3)Harvard Medical School, Boston, MA
- 12:00 95 127.095 Identifying Biological Pathways Implicated in Defined Subgroups of Phenotypic Expression for Autism Spectrum Disorders. O. Veatch¹, B. Yaspan¹, N. Schnetz-Boutaud¹, M. A. Pericak-Vance² and J. L. Haines¹, (1)Center for Human Genetics Research, Vanderbilt University, Nashville, TN, (2)Dr. John T. Macdonald Foundation Department of Human Genetics, University of Miami Miller School of Medicine, Miami, FL
- 10:00 96 127.096 Autism Spectrum Disorder in Duchenne Muscular Dystrophy. V. Ricotti¹, M. Scoto¹, W. Mandy², K. Entwistle³, S. Robb⁴, E. Mercuri⁵, D. H. Skuse⁶ and F. Muntoni¹, (1)The Dubowitz Neuromuscular Centre UCL, Institute of Child Health, London, United Kingdom, (2)University College London, London, United Kingdom, (3)UCL, Department of Clinical Psychology, London, United Kingdom, (4)The Neuromuscular Unit, Great Ormond Street Hospital, London, United Kingdom, (5)Child and Adolescent Neuropsychiatry Unit, Catholic University at Gemelli Hospital, Rome, Italy, (6)Behavioural and Brain Sciences Unit, Institute of Child Health, UCL, London, United Kingdom
- 11:00 97 127.097 Perturbed Cholesterol Metabolism in Autism Spectrum Disorders: Biochemical and Genetic Analyses. J. B. Roulet¹, A. Gunsul², J. Pearson³, T. Nguyen¹ and R. D. Steiner¹, (1)Oregon Health & Science University, Portland, OR, (2)OHSU, Portland, OR, (3)University of Utah, Salt Lake City, UT

Poster Sessions

128 - Innovative Technology Demonstration

9:00 - 13:00 - Banquet Hall

- 98 128.098 A Meta-Analysis of Innovative Technology-Based Interventions for Autism Spectrum Disorders. O. Grynspan¹, P. L. Weiss² and E. Gal², (1)CNRS USR 3246, Université Pierre et Marie Curie, Paris, France, (2)University of Haifa, Haifa, Israel
- 99 128.099 Detection of Animated Facial Expressions in a VR Game for Individuals with Autism. J. A. Crittendon¹, E. Bekele², Z. Warren¹, A. Swanson³, Z. Zheng² and N. Sarkar², (1)Vanderbilt Kennedy Center, Nashville, TN, (2)Vanderbilt University, Nashville, TN, (3)Vanderbilt Kennedy Center; Treatment and Research Institute for Autism Spectrum Disorders (TRIAD), Nashville, TN
- 100 128.100 Representing Emotion in a Mathematics Tutor Designed for People with ASD by People with ASD. M. Brosnan¹, E. Chapman¹, H. Johnson², B. Grawemeyer¹ and L. Benton¹, (1)University of Bath, Bath, United Kingdom, (2)U. Bath, United Kingdom

- 101 128.101 Jestimule: A Serious Game with Innovative Human-Computer Interface Elements for Autism Spectrum Disorders. S. Serret¹, S. Hun², G. Iakimova³, J. Lozada⁴, M. Anastassova⁵ and F. Askenazy⁶, (1)Child and Adolescent Psychiatry Unit, Autism Resources Center PACA – Nice, Nice, France, (2)Child and Adolescent Psychiatry Unit, Autism Resources Center PACA – Nice, Nice, France, (3)University of Nice Sophia Antipolis, Anthropologic and Cognitive and social Psychology Department, Nice, France, (4)Sensory and Ambient Interfaces Laboratory, CEA LIST, Fontenay aux roses, France, (5)Sensory and Ambient Interfaces Laboratory, CEA List, Fontenay aux roses, France, (6)Pediatric Hospitals of Nice CHU-LENVAL, Child and Adolescent Psychiatry Unit, Nice, France
- 102 128.102 ASC-Inclusion — Interactive Software to Help Children with ASC Understand and Express Emotions. S. Newman¹, O. Golan², S. Baron-Cohen³, S. Bölte⁴, A. Baranger⁵, B. Schuller⁶, P. Robinson⁷, A. Camurri⁸, N. Meir¹, C. Rotman¹, S. Tal², S. Fridenson², H. O'Reilly³, D. Lundqvist⁴, S. Berggren⁴, N. Sullings⁵, E. Marchi⁶, A. Batliner⁶, I. Davies⁷ and S. Piana⁸, (1)Comperia Ltd, Ramat-Gan, Israel, (2)Department of Psychology, Bar-Ilan University, Ramat-Gan, Israel, (3)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (4)Department of Women's and Children's Health, Center of Neurodevelopmental Disorders (KIND), Karolinska Institutet, Stockholm, Sweden, (5)Autism-Europe aisbl, Brussels, Belgium, (6)Institute for Human-Machine Communication, Technische Universität München, Munich, Germany, (7)Computer Laboratory, University of Cambridge, Cambridge, United Kingdom, (8)University of Genova, Genova, Italy
- 103 128.103 Teaching Emotion Recognition From Facial Expressions Using a Realistic Robotic Head. A. Adams¹ and P. Robinson, Computer Laboratory, University of Cambridge, Cambridge, United Kingdom
- 104 128.104 NAO-Base: A Multimedia Database to Support Socially-Assistive Robotics for Individuals with Autism Spectrum Disorder. J. M. Vernon¹, J. Kumar¹, C. R. Crowell¹, M. Villano¹, K. G. Wier², K. Tang¹, J. Zona³, D. C. Portenier³ and J. J. Diehl⁴, (1)University of Notre Dame, Notre Dame, IN, (2)Logan Center, South Bend, IN, (3)Barber National Institute, Erie, PA, (4)Center for Children and Families, University of Notre Dame, South Bend, IN
- 105 128.105 Exploring the Role of Computer-Assisted Social Story Intervention on the Development of Social Communication Skills in Children with ASC. A. Constantin¹, H. Pain² and A. Waller³, (1)School of Informatics, University of Edinburgh, Edinburgh, United Kingdom, (2)School of Informatics, University of Edinburgh, Edinburgh, Scotland, (3)School of Computing, University of Dundee, Dundee, United Kingdom
- 106 128.106 Storyscape, A Social Illustrated Primer. M. Eckhardt¹, M. S. Goodwin² and R. W. Picard³, (1)Massachusetts Institute of Technology, The Media Laboratory, Cambridge, MA, (2)Northeastern University, Boston, MA, (3)Massachusetts Institute of Technology, Cambridge, MA
- 107 128.107 Computer Supported Collaborative Conflict Negotiation Strategy Application for Adolescents with High Functioning Autism Spectrum Disorders. M. Hochhauser¹, P. L. Weiss and E. Gal, University of Haifa, Haifa, Israel
- 108 128.108 Vocal Affective Expressivity and Peer Acceptance of Children with ASD: Path for Integration of Computers in ASC Assessment and Intervention Planning. S. Tal¹, S. Fridenson¹, E. Gal¹, A. Batliner², B. Schuller² and O. Golan¹, (1)Department of Psychology, Bar-Ilan University, Ramat-Gan, Israel, (2)Institute for Human-Machine Communication, Technische Universität München, Munich, Germany
- ▶ 109 128.109 Design of a Touch Screen Computer Application to Develop Foundational Motor Communicative Skills. M. K. Belmonte¹, M. Dhariwal^{2,3}, T. Saxena-Chandhok⁴ and P. Karanth⁴, (1)The Groden Center, Providence, RI, (2)Mad Rat Games, Bangalore, India, (3)National Institute of Design R&D Campus, Bangalore, India, (4)The Com DEALL Trust, Bangalore, India
- 110 128.110 Dense Data Collection Through the Speechome Recorder Better Reveals Developmental Trajectories. I. Chin¹, S. Vosoughi², M. S. Goodwin³, D. K. Roy⁴ and L. Naigles⁵, (1)Psychology, University of Connecticut, Storrs, CT, (2)Media Laboratory, Massachusetts Institute of Technology, Cambridge, MA, (3)Northeastern University, Boston, MA, (4)Massachusetts Institute of Technology, Cambridge, MA, (5)University of Connecticut, Storrs, CT
- 111 128.111 Analysis and Visualization of Longitudinal Physiological Data of Children with ASD. J. Hernandez¹, A. Sano¹, M. Zisook², J. Deprey¹, M. S. Goodwin² and R. W. Picard¹, (1)Massachusetts Institute of Technology, Cambridge, MA, (2)Northeastern University, Boston, MA
- 112 128.112 Exploring the Interplay Between Autonomic Activity and Behaviors in Children with Autism Spectrum Disorder (ASD) Through a Multisensorial Platform for the Continuous Monitoring of Physiological Signals. L. Billeci¹, G. Tartarisco¹, A. Narzisi², G. Baldus¹, D. Corda¹, F. Muratori² and G. Pioggia¹, (1)Institute of Clinical Physiology, National Research Council (CNR), Pisa, Italy, (2)University of Pisa – Stella Maris Scientific Institute, Pisa, Italy
- 113 128.113 Mindgamers in School. R. H. Rice¹, L. I. Sugarman² and S. Jacobs³, (1)Mental Health Counseling, St. John Fisher College, Rochester, NY, (2)Health Sciences, Rochester Institute of Technology, Rochester, NY, (3)Interactive Games and Media, Rochester Institute of Technology, Rochester, NY
- ▶ 114 128.114 Seeing the Doctor Without Fear: Systematic Desensitization for Medical Visits in ASD. L. Boada¹, M. Parellada¹, C. Moreno², B. Villamia³, V. Pensosi³, C. Lorente⁴, J. Romo⁵ and C. Arango¹, (1)Child and Adolescent Psychiatry Department, Hospital General Universitario Gregorio Marañón. Instituto de Investigación Sanitaria Gregorio Marañón. IISGM. CIBERSAM, Madrid, Spain, (2)Hospital General Universitario Gregorio Marañón. Instituto de Investigación Sanitaria Gregorio Marañón. IISGM. CIBERSAM, Child and Adolescent Psychiatry Department, Madrid, Spain, (3)Fundación Orange, Madrid, Spain, (4)Child and Adolescent Psychiatry Department, CIBERSAM, Instituto de Investigación Sanitaria Gregorio Marañón, IISGM, Hospital General Universitario Gregorio Marañón, Madrid, Spain, (5)Hospital General Universitario Gregorio Marañón. Instituto de Investigación Sanitaria Gregorio Marañón. IISGM. CIBERSAM, Child and Adolescent Psychiatry Department, Spain, Madrid, Spain
- 115 128.115 Using Tic-TAC Software to Reduce Anxiety-Related Behaviour in Adults with Autism and Learning Difficulties During Waiting Periods. A Pilot Study. G. Herrera¹, C. Campillo¹, C. Ramirez de Gazuza², J. L. Cuesta², R. Abellán¹, A. Campos¹, I. Navarro¹, J. Sevilla¹, F. A. Amati¹ and C. Pardo¹, (1)University of Valencia, Paterna (Valencia), Spain, (2)Autismo Burgos, Burgos, Spain
- 116 128.116 Mebook: A Novel Device Using Video Self-Modeling to Enhance Literacy Among Children with ASD. S. C. S. Cheung¹, J. Shen² and N. Uzuegbunam¹, (1)Center for Visualization and Virtual Environments, University of Kentucky, Lexington, KY, (2)Center for Visualization and Virtual Environments, University of Kentucky, Lexington, KY
- 117 128.117 Toby Playpad – Empowering Parents to Provide Early Therapy in the Home. S. Venkatesh¹, D. Q. Phung¹, S. Greenhill², T. Duong¹ and B. Adams², (1)Centre for Pattern Recognition and Data Analytics, Deakin University, Geelong, Australia, (2)Department of Computing, Curtin University, Perth, Australia

- 118 128.118 Interest of Kinect in Psychomotor Development of Children with ASD. T. Maffre¹, J. Perrin², L. Franchitto² and J. P. Raynaud³, (1)CRA Midi-Pyrénées, CHU de Toulouse, Toulouse, France, (2)CHU de Toulouse, Toulouse, France, (3)Hôpital La Grave TSA 60033, CHU de Toulouse, Toulouse, France
- 119 128.119 Loris: Web-Based Neuroimaging Data Management for Autism Research. P. Kostopoulos¹, C. Rogers, S. Das and A. C. Evans, Montreal Neurological Institute, McGill University, Montreal, QC, Canada
- 120 128.120 Integrated Data Management Processes for Autism Research: Empowering Efficient Data Reuse and Sharing Across Multiple Studies, Data Types and Sites. J. Hawthorne¹, D. Voccola, N. Sinanis, F. Farach and L. Rozenblit, Prometheus Research, LLC, New Haven, CT
- 121 128.121 Architecting an Open-Source Research Exchange Database (RexDB): How to Design a System That Supports Integrated Data Management for Multidisciplinary Autism Research. L. Rozenblit, F. Farach, D. Voccola¹ and C. Tirrell, Prometheus Research, LLC, New Haven, CT
- 122 128.122 Rex Acquire: A Configurable, Open-Source Data Acquisition Platform for Integrated Autism Data Management Environments. D. Voccola¹, C. Tirrell, O. Golovko, C. Evans, O. McGettrick and L. Rozenblit, Prometheus Research, LLC, New Haven, CT

Poster Sessions

129 - Brain Imaging – Structure / Function Correlation

9:00 - 13:00 - Banquet Hall

- 10:00 123 129.123 Altered Functional and Structural Brain Network Organization in Autism. J. D. Rudie^{1,2}, J. A. Brown², D. Beck-Pancer¹, L. M. Hernandez^{1,2}, E. L. Dennis², P. M. Thompson³, S. Y. Bookheimer⁴ and M. Dapretto^{1,4}, (1)Brain Mapping Center, University of California, Los Angeles, Los Angeles, CA, (2)Interdepartmental Neuroscience Program, University of California, Los Angeles, Los Angeles, CA, (3)Neurology, UCLA School of Medicine, Los Angeles, CA, (4)Psychiatry and Biobehavioral Sciences, University of California, Los Angeles, Los Angeles, CA
- 11:00 124 129.124 Corpus Callosum Structure and Interhemispheric Information Transfer in Autism. E. B. Barbeau¹, J. D. Lewis², A. C. Evans², L. Motttron¹ and T. A. Zeffiro², (1)Service de Recherche, Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada, (2)Montreal Neurological Institute, McGill University, Montreal, QC, Canada, (3)Neural Systems Group, Massachusetts General Hospital, Charlestown, MA
- 12:00 125 129.125 Individual Differences in Anxiety Symptoms Predict Amygdala Function in ASD. J. D. Herrington^{1,2}, A. N. Browne¹, C. M. DeLussey³, V. Troiani^{1,2}, G. K. Bartley¹ and R. T. Schultz^{2,4}, (1)Children's Hospital of Philadelphia, Philadelphia, PA, (2)Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, (3)The Children's Hospital of Philadelphia, Philadelphia, PA, (4)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA
- 10:00 126 129.126 Measurement of GABA Brain Metabolites in Children with Autism Spectrum Disorder. W. C. Gaetz¹, L. Bloy², D. J. Wang², R. G. Port², L. Blaskey³, S. E. Levy⁴ and T. P. Roberts⁵, (1)Radiology, Children's Hospital of Philadelphia, Philadelphia, PA, (2)Radiology, The Children's Hospital of Philadelphia, Philadelphia, PA, (3)Pediatrics, Children's Hospital of Philadelphia, Philadelphia, PA, (4)Division of Child Development, Children's Hospital of Philadelphia, Philadelphia, PA, (5)34th St and Civic Center Blvd., Children's Hospital of Philadelphia, Philadelphia, PA
- 11:00 127 129.127 Altered Prefrontal Activation and Connectivity During Implicit Emotion Judgment in Autism Spectrum Disorders. R. K. Kana¹, University of Alabama, Birmingham, Birmingham, AL
- 12:00 128 129.128 Abnormal White Matter Microstructure in Posterior Cerebral Tracts Is Associated with Sensory Dysfunction and Impaired Multisensory Integration in Children with Sensory Processing Disorders. J. P. Owen¹, E. Fourie, S. Desai, S. S. Hill, J. Harris, P. Mukherjee and E. Marco, University of California San Francisco, San Francisco, CA
- 10:00 129 129.129 Neural Mechanisms of Improvements in Social Motivation After Pivotal Response Treatment: A Case Series. A. C. Voos^{1,2}, K. A. Pelphrey¹, C. Cordeaux¹, L. C. Anderson¹ and P. Ventola¹, (1)Child Study Center, Yale University, New Haven, CT, (2)Koegel Autism Center, University of California Santa Barbara, Santa Barbara, CA
- 11:00 130 129.130 DTI Findings Related to Communication Impairment in SLOS. A. Diaz-Stransky¹, R. W. Y. Lee², E. S. Jung³, A. Thurm⁴ and F. D. Porter⁵, (1)Behavioral Sciences and Psychiatry, Johns Hopkins University School of Medicine, Baltimore, MD, (2)Neurology and Developmental Medicine, Kennedy Krieger Institute, Baltimore, MD, (3)Psychiatry, Kennedy Krieger Institute, Baltimore, MD, (4)National Institute of Mental Health, Bethesda, MD, (5)Program in Developmental Endocrinology and Genetics, National Institute of Child Health and Human Development, Rockville, MD
- 12:00 131 129.131 On Electrophysiologic and Multimodal Signatures of Language Impairment in ASD. T. P. Roberts^{1,2}, S. Y. Khan¹, K. M. Cannon¹, K. Heiken¹, M. R. Lanza¹, S. Qasmieh¹, K. Hines¹, L. Blaskey^{1,3}, D. M. Zarnow^{1,2}, W. C. Gaetz^{1,2}, J. C. Edgar^{1,2} and S. E. Levy⁴, (1)Radiology, Children's Hospital of Philadelphia, Philadelphia, PA, (2)Radiology, University of Pennsylvania, Philadelphia, PA, (3)Pediatrics, Children's Hospital of Philadelphia, Philadelphia, PA, (4)Division of Child Development, Children's Hospital of Philadelphia, Philadelphia, PA
- 10:00 132 129.132 Diffusion Tensor Tracking (DTT) of Face Processing Pathways with Comparison to Sensitive Behavioral Measures: Understanding Microstructure and Detecting Subgroups in Autism. T. E. Conturo¹, D. L. Williams², K. W. Chua³, S. C. Green³, J. R. Mahalchak⁴, A. R. McMichael¹, C. D. Smith⁵, M. S. Strauss³ and N. J. Minshew³, (1)Washington University, Saint Louis, MO, (2)Duquesne University, Pittsburgh, PA, (3)University of Pittsburgh, Pittsburgh, PA, (4)Psychology, University of Pittsburgh, Pittsburgh, PA, (5)University of Kentucky, Lexington, KY
- 11:00 133 129.133 Cortical Thickness Changes in Autism Spectrum Disorders Associated with Age and Social Cognitive Behaviours. K. A. R. Doyle-Thomas¹, N. E. Foster², A. Tryfon², T. Ouimet³, K. L. Hyde⁴, A. C. Evans⁵, L. Zwaigenbaum⁶, E. Anagnostou⁷ and NeuroDevNet ASD Imaging Group⁸, (1)Bloorview Research Institute, Toronto, ON, Canada, (2)McGill University, Montreal, QC, Canada, (3)Montreal Children's Hospital Research Institute, Montreal, QC, Canada, (4)Montreal Neurological Institute, McGill University, Montréal, QC, Canada, (5)Montreal Neurological Institute, McGill University, Montreal, QC, Canada, (6)Glenrose Rehabilitation Hospital, University of Alberta, Edmonton, AB, Canada, (7)University of Toronto, Toronto, ON, Canada, (8)<http://www.neurodevnet.ca/research/asd>, Vancouver, BC, Canada
- 12:00 134 129.134 Abnormal Connectivity in the Social Brain in ASD Identified Via Naturalistic Social Perception and Independent Components Analysis. D. Giovannelli¹, J. E. Letzen², R. T. Schultz^{3,4} and J. D. Herrington^{4,5}, (1)Haverford College, Haverford, PA, (2)Department of Clinical and Health Psychology, University of Florida, Gainesville, FL, (3)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (4)Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, (5)Children's Hospital of Philadelphia, Philadelphia, PA

- 10:00 135 129.135 Brain and Behavioral Correlates of Auditory-Motor Synchronization in Children with Autism Spectrum Disorder. A. Tryfon^{1,2}, N. E. Foster^{1,2}, T. Ouimet¹, K. A. R. Doyle-Thomas³, E. Anagnostou³, A. C. Evans², L. Zwaigenbaum⁴, K. L. Hyde^{1,2} and NeuroDevNet ASD Imaging Group⁵, (1)Montreal Children's Hospital, McGill University, Montreal, QC, Canada, (2)Montreal Neurological Institute, McGill University, Montreal, QC, Canada, (3)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (4)Glenrose Rehabilitation Hospital, University of Alberta, Edmonton, AB, Canada, (5)<http://www.neurodevnet.ca/research/asd>, Vancouver, BC, Canada
- 11:00 136 129.136 Autism Traits in the Typical Population Are Related to Regional Changes in Brain Structure. L. Gebauer^{1,2}, N. E. Foster³, P. Vuust^{2,4} and K. L. Hyde⁵, (1)Research Institute of the Montreal Children's Hospital, McGill University, Montreal, QC, Denmark, (2)Center of Functionally Integrative Neuroscience, Aarhus University, Aarhus, Denmark, (3)McGill University, Montreal, QC, Canada, (4)The Royal Academy of Music, Denmark, Aarhus, Denmark, (5)Montreal Neurological Institute, McGill University, Montréal, QC, Canada

Poster Sessions

130 - Treatments: Interventions in School Age, Adolescents and Adults and Social Skills Interventions

9:00 - 13:00 - Banquet Hall

- 10:00 137 130.137 Skills for Living: Evaluation of a Skill-Training Group for Adults with Autism Spectrum Disorders. J. Montgomery¹, S. North², B. M. Stoesz² and K. Carpick⁴, (1)University of Manitoba, University of Manitoba, Winnipeg, MB, Canada, (2)Pembina Trails School Division, Winnipeg, MB, Canada, (3)University of Manitoba, Altona, MB, Canada, (4)University of Manitoba, Winnipeg, MB, Canada
- 11:00 138 130.138 PEERS[®] for Young Adults: Predictors of Social Skills Treatment Outcome in Young Adults with Autism Spectrum Disorders. J. Hopkins¹, R. Ellingsen², S. Bates³ and E. Laugeson⁴, (1)Department of Psychiatry, UCLA PEERS Clinic, Los Angeles, CA, (2)University of California Los Angeles, Venice, CA, (3)UCLA PEERS Program, Los Angeles, CA, (4)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA
- 12:00 139 130.139 Bullying in Adolescents with Asperger Syndrome: Clinical and Therapeutic Aspects. F. Pourre¹, J. Andanson, E. Aubert and J. P. Raynaud, Service Universitaire de Psychiatrie de l'Enfant et de l'Adolescent, CHU de Toulouse, Toulouse, France
- 10:00 140 130.140 Investigating Changes in Mu Frequency Activity in Children with Autism Following Intensive Behavioural Intervention. A. K. Moffat¹, R. L. Young¹ and M. C. Ridding², (1)School of Psychology, Flinders University, Adelaide, Australia, (2)School of Paediatrics and Reproductive Health, The University of Adelaide, Adelaide, Australia
- 11:00 141 130.141 A Comparative Effectiveness Trial of a School- and Home-Based Executive Functioning Intervention Versus a Social Skills Intervention; Part One: Contextual Effects. L. G. Anthony¹, L. Cannon², J. F. Strang¹, M. Wills¹, C. Luong-Tran³, J. L. Sokoloff¹, E. Bal¹, M. A. Werner², K. C. Alexander², K. K. Powell¹, A. C. Sharber³, M. Rosenthal⁴, G. L. Wallace⁵ and L. Kenworthy³, (1)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (2)Ivymount School, Rockville, MD, (3)Children's National Medical Center, Rockville, MD, (4)Child Mind Institute, New York, NY, (5)National Institute of Mental Health, Bethesda, MD

- 12:00 142 130.142 Effect of PEERS Intervention on Self-Esteem and Self-Concept in Adolescents with ASD. J. Wasisco¹, A. V. Van Hecke, J. S. Karst, S. Stevens, K. A. Schohl, B. Dolan, R. J. Remmel, N. Fritz, G. McDonald, J. Kahne and A. Reveles, Marquette University, Milwaukee, WI
- 10:00 143 130.143 A Randomized Controlled Trial of the Korean Version of the PEERS[®] Parent-Assisted Social Skills Training Program for Teens with ASD. H. J. Yoo^{1,2,3}, E. Laugeson⁴, G. Bahn^{5,6}, I. H. Cho^{7,8}, E. K. Kim⁹, J. H. Kim¹, J. W. Min⁵, W. H. Lee⁵, S. S. Jun⁹, J. S. Seo⁸, G. Y. Bong³, B. N. Kim^{2,10} and S. C. Cho^{2,10}, (1)Psychiatry, Seoul National University Bundang Hospital, Seongnam, South Korea, (2)Seoul National University College of Medicine, Seoul, South Korea, (3)Seongnam Child and Adolescent Community Mental Health Center, Seongnam, South Korea, (4)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA, (5)Psychiatry, Kyung Hee University Medical Center, Seoul, South Korea, (6)Psychiatry, Kyung Hee University School of Medicine, Seoul, South Korea, (7)Psychiatry, Gacheon University of Medicine and Science, Incheon, South Korea, (8)Psychiatry, Gacheon University Ghil Hospital, Incheon, South Korea, (9)Special Education, Dankook University, Yongin, South Korea, (10)Child and Adolescent Psychiatry, Seoul National University Hospital, Seoul, South Korea
- 11:00 144 130.144 Research in Action — an Evaluation of the Secret Agent Society Social Skills Program in a Specialist School Context. R. B. Beaumont¹, K. Sofronoff², K. M. Gray³, J. R. Taffe⁴, T. Clark⁵, D. M. Costley⁵, A. Redoblado Hodge⁶, J. Roberts⁷, S. K. Horstead⁸, K. Clarke⁹ and S. L. Einfeld⁹, (1)Social Skills Training Institute, Indooroopilly, QLD, Australia, (2)School of Psychology, University of Queensland, Brisbane, Australia, (3)Monash University, Ferny Creek 3786, Australia, (4)Centre for Developmental Psychiatry and Psychology, School of Psychology & Psychiatry, Monash University, Clayton VIC, Australia, (5)Autism Spectrum Australia (ASPECT), Sydney, Australia, (6)Child Development Unit, The Children's Hospital at Westmead, Sydney, Australia, (7)Autism Centre of Excellence, Griffith University, Mt Gravatt, Australia, (8)Brain & Mind Research Institute and Faculty of Health Sciences, University of Sydney, Camperdown, Australia, (9)Faculty of Health Sciences and Brain and Mind Research Institute, University of Sydney, Camperdown NSW, Australia
- 12:00 145 130.145 Observation of Peer Engagement in a Peer Mediated Intervention Model for Adolescents with ASD. F. Orlich¹, R. Oti¹, K. M. Burner¹, R. Montague¹, R. Poole¹, R. Bernier², B. H. King³, C. Lord⁴ and C. Kasari⁵, (1)Seattle Children's Research Institute, Seattle, WA, (2)University of Washington, Seattle, WA, (3)University of Washington and Seattle Children's Hospital, Seattle, WA, (4)Center for Autism and the Developing Brain, Weill Cornell Medical College, White Plains, NY, (5)University of California Los Angeles, Los Angeles, CA
- 10:00 146 130.146 Guiding Children with High-Functioning Autism Through Early Life Transitions: New Approaches. O. Baykaner¹, S. Anderson², S. M. Staunton³, J. Hellriegel⁴, M. Murin⁵, W. Mandy⁶ and D. H. Skuse³, (1)Institute of Child Health, London, United Kingdom, (2)Great Ormond Street Hospital, London, United Kingdom, (3)Behavioural and Brain Sciences Unit, Institute of Child Health, UCL, London, United Kingdom, (4)Research Department of Clinical, Educational and Health Psychology, University College London, London, United Kingdom, (5)National Centre for High Functioning Autism, Department of Child & Adolescent Mental Health (DCAMH), Great Ormond Street Hospital for Children NHS Foundation Trust, London, United Kingdom, (6)Division of Psychology and Language Sciences, Faculty of Brain Sciences, UCL, London, United Kingdom

- 11:00 147 130.147 ACT-Based (Acceptance and Commitment Therapy) Skills Training in Group for Adolescents and Adults with Asperger Syndrome. J. Pahnke¹, J. Bjureberg², J. Jokinen³, T. Lundgren⁴, T. Hursti⁵, S. Bölte⁶ and T. Hirvikoski¹, (1)Department of Women's and Children's Health, Center for Neurodevelopmental Disorders at Karolinska Institutet, Karolinska Institutet, Stockholm, Sweden, (2)Karolinska Hospital, Psychiatry Northwest, Stockholm, Sweden, (3)Karolinska Institute, Department of Clinical Neuroscience, Stockholm, Sweden, (4)Stockholm University, Department of Psychology, Stockholm, Sweden, (5)Uppsala University, Department of Psychology, Uppsala, Sweden, (6)Department of Women's and Children's Health, Center of Neurodevelopmental Disorders (KIND), Karolinska Institutet, Stockholm, Sweden
- 12:00 148 130.148 Can the Pegasus Psychoeducation Programme Improve the Understanding, Well-Being and Functioning of Young People with an Autism Spectrum Disorder and That of Their Families? A Randomized Controlled Trial. R. K. Gordon¹, L. Roughan², V. Livermore-Hardy³, O. Baykaner⁴, D. H. Skuse⁵, M. Murin⁶ and W. Mandy⁷, (1)Behavioural and Brain Sciences, Great Ormond Street Hospital and UCL Institute of Child Health, London, United Kingdom, (2)Great Ormond Street Hospital, London, United Kingdom, (3)4th Floor, Frontage Building, Great Ormond Street Hospital, London, United Kingdom, (4)Social Communication Disorders Clinic, Great Ormond Street Hospital for Children, London, United Kingdom, (5)Behavioural and Brain Sciences Unit, Institute of Child Health, UCL, London, United Kingdom, (6)National Centre for High Functioning Autism, Department of Child & Adolescent Mental Health (DCAMH), Great Ormond Street Hospital for Children NHS Foundation Trust, London, United Kingdom, (7)Division of Psychology and Language Sciences, Faculty of Brain Sciences, UCL, London, United Kingdom
- 10:00 149 130.149 Pilot Evaluation of Adapted Cognitive Behaviour Therapy for Young People with Autism Spectrum Disorder and High Anxiety. V. Grahame¹, E. Honey², H. McConachie³, J. Rodgers⁴, E. McLaughlin⁵ and A. S. Le Couteur³, (1)NTW NHS Foundation Trust, Newcastle upon Tyne, United Kingdom, (2)Complex Neurodevelopmental Disorders Service, NTW NHS Foundation Trust, Newcastle Upon Tyne, United Kingdom, (3)Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom, (4)Institute of Neuroscience, Newcastle University, Newcastle upon Tyne, United Kingdom, (5)Newcastle University, Newcastle, United Kingdom
- 11:00 150 130.150 The Impact of a Social Skills Training Program on Social Competence and Social Worries in Children with an Autism Spectrum Disorder. M. Chester¹ and A. L. Richdale², (1)Division of Psychology, School of Health Sciences, RMIT University, Bundoora, Australia, (2)Olga Tennison Autism Research Centre, Bundoora, Australia
- 12:00 151 130.151 Evaluation of Executive Function and Autism Characteristics in Children with ASD Participating in Spark. B. M. Stoesz¹, J. M. Montgomery², E. H. MacKenzie³ and K. Carpick⁴, (1)Psychology, University of Manitoba, Altona, MB, Canada, (2)Psychology Dept., University of Manitoba, Winnipeg, MB, Canada, (3)Wired Fox Publications, St. Catherine's, ON, Canada, (4)University of Manitoba, Winnipeg, MB, Canada
- 10:00 152 130.152 Improving Transportability of a CBT Intervention for Anxiety in Youth with ASD: Results From a US-Canada Collaboration. J. Reaven¹, A. Blakeley-Smith², T. Beattie³, A. Sullivan⁴, E. Moody⁵, S. Hepburn⁶ and I. M. Smith⁷, (1)Univ. of Colorado Denver-JFK Partners, Aurora, CO, (2)Univ. of Colorado Denver-JFK Partners, Aurora, CO, (3)IWK Health Centre, Halifax, NS, Canada, (4)IWK Health Center, Halifax, NS, Canada, (5)University of Colorado, Denver, Aurora, CO, (6)University of Colorado, Aurora, CO, (7)Dalhousie University / IWK Health Centre, Halifax, NS, Canada
- 11:00 153 130.153 Efficacy of Social Skills Group Treatments for School-Aged Children with ASDs: Short-Term Behavioral Outcomes of A Randomized, Comparative Study. L. Soorya¹, A. T. Wang², D. B. Halpern³, S. Soffes³, M. Gorenstein³, K. B. Rajan¹ and J. D. Buxbaum³, (1)Rush University Medical Center, Chicago, IL, (2)Mount Sinai School of Medicine, New York, NY, (3)Psychiatry, Mount Sinai School of Medicine, New York, NY
- 12:00 154 130.154 Superheroes Social Skills for Children with Autism Spectrum Disorder: Effects of a Multi-Component Social Skills Training Program On Acquisition, Generalization, and Maintenance of Target Social Skills. K. C. Radley¹, J. Hood², B. Jenson², H. Block², E. Clark² and W. M. McMahon³, (1)Department of Psychology, University of Southern Mississippi, Hattiesburg, MS, (2)Department of Educational Psychology, University of Utah, Salt Lake City, UT, (3)Psychiatry, University of Utah, Salt Lake City, UT
- 10:00 155 130.155 Development of a Group Intervention Protocol for Socio-Emotional Life Skills for Adults (SELSA) with High Functioning Autism Spectrum Conditions. B. Eran¹, H. Givon-Mantin¹ and O. Golan^{1,2}, (1)Bait Echad Center, The Association for Children at Risk, Tel Aviv, Israel, (2)Department of Psychology, Bar-Ilan University, Ramat-Gan, Israel
- 11:00 156 130.156 Enhancing Face-Looking Behavior by Social Skills Training in Children with Autism Spectrum Disorders. S. Matsuda^{1,2} and J. Yamamoto¹, (1)Department of Psychology, Keio University, Tokyo, Japan, (2)Japan Society for the Promotion of Science, Tokyo, Japan
- 12:00 157 130.157 The Echoes Technology-Enhanced Learning Environment: Facilitating Social Communication Skills in Children with Autism. G. Rajendran¹, K. Porayska-Pomsta², T. J. Smith³ and O. Lemon⁴, (1)Psychology, Heriot Watt University, Edinburgh, United Kingdom, (2)London Knowledge Lab, London, United Kingdom, (3)Psychological Sciences, Birkbeck, University of London, London, United Kingdom, (4)Heriot Watt University, Edinburgh, United Kingdom
- 10:00 158 130.158 Playing with a Robot: Enhancing Social Communication and Interaction. A. S. Roberts¹ and S. M. Shore², (1)Clinical, Boston Higashi School, Randolph, MA, (2)Special Education, Adelphi University, Garden City, NY
- 11:00 159 130.159 Computer-Based Face Training in Autism: A Comparison of Two Programs. A. N. Sung¹ and V. Smith², (1)Educational Psychology, University of Victoria, Victoria, BC, Canada, (2)Educational Psychology, University of Alberta, Edmonton, AB, Canada
- 12:00 160 130.160 A Computerized Interactive Game for Remediation of Prosody in Children with Autism. J. van Santen^{1,2}, B. H. Langhorst¹, A. P. Hill¹, C. Conway¹, R. Sanger-Hahn¹, G. Keepers¹, M. Parmer¹, R. Ludovise¹, E. T. Prud'hommeaux¹ and G. Kiss¹, (1)Center for Spoken Language Understanding, Oregon Health & Science University, Beaverton, OR, (2)Biospeech, Inc., Lake Oswego, OR
- 10:00 161 130.161 Using Social Robots to Improve Directed Eye Gaze of Children with Autism Spectrum Disorders. H. Feng¹, M. Kastner², A. Gutierrez³, S. Hepburn⁴, J. Zhang⁵ and M. H. Mahoor⁶, (1)ECE Department, University of Denver, Denver, CO, (2)Psychology Department, University of Denver, Denver, CO, (3)Psychology, Florida International University, Miami, FL, (4)University of Colorado, Aurora, CO, (5)ECE Department, University of Denver, Denver, CO, (6)Electrical and Computer Engineering, University of Denver, Denver, CO
- 11:00 162 130.162 Reducing Anxiety in Young People with ASD Using a Virtual Reality Environment. M. Maskey¹, J. Lowry², H. McConachie³, J. Rodgers¹ and J. Parr⁴, (1)Institute of Neuroscience, Newcastle University, Newcastle upon Tyne, United Kingdom, (2)Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom, (3)Newcastle University, Newcastle upon Tyne, United Kingdom, (4)Institute of Neuroscience, Newcastle University, Newcastle, United Kingdom

- 12:00 163 130.163 Towards the Next Generation of Computer-Based Face Training in Autism Intervention. A. N. Sung¹ and J. W. Tanaka², (1)Educational Psychology, University of Victoria, Victoria, BC, Canada, (2)Psychology, University of Victoria, Victoria, BC, Canada
- 10:00 164 130.164 How Do Teacher's Behavior and Classroom Supports Relate to ASD Student's Behavior in Class, and Do These Factors Change As a Result of Unstuck and On Target? C. Luong-Tran¹, L. G. Anthony¹, E. Bal¹, M. Wills¹, M. A. Werner², K. C. Alexander², L. Cannon², G. L. Wallace³ and L. Kenworthy⁴, (1)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (2)Ivymount School, Rockville, MD, (3)National Institute of Mental Health, Bethesda, MD, (4)Children's National Medical Center, Rockville, MD
- 11:00 165 130.165 Special Education Teachers' Views about Social Skills Instruction of Elementary Children in the Autistic Spectrum. C. Papoutsis¹ and S. Mavropoulou², (1)Department of Special Education, University of Thessaly, Volos, Greece, (2)Argonafton & Filellinon, Department of Special Education, University of Thessaly, Volos, Greece
- 12:00 166 130.166 The Challenges of Applying and Assessing CBT for Individuals with ASD in a Clinical Setting; A Case Study Series. S. B. Helverschou¹, U. Bastian², K. Utgaard³ and P. C. Wandaas⁴, (1)The National Autism Unit, Oslo University Hospital, Oslo, Norway, (2)BUFA, Nordlandssykehuset, Bodø, Norway, (3)Glenn Autism Centre, Vestfold Hospital, Toensberg, Norway, (4)Regional Centre for Intellectual Disability, Vestre Viken Hospital Trust, Drammen, Norway
- 10:00 167 130.167 Teachers' Implementation of ASD Evidence Based Practices in General Education Classrooms. M. I. Thomson¹, Autism Teaching Institute, Victoria, Australia
- 11:00 168 130.168 Psychosocial Treatments for Children with Autism and Intellectual Disability Delivered by Non-Specialist Providers. B. Reichow¹, C. Servili², M. T. Yasamy², C. Barbu³ and S. Saxena², (1)Yale University School of Medicine, New Haven, CT, (2)World Health Organization, Geneva, Switzerland, (3)University of Verona, Verona, Italy
- 12:00 169 130.169 ABA, Teacch, and the Social and Empirical Validation of Evidence-Based Practices for Students with Autism Spectrum Disorders: Research-Supported Interventions for Schools, Homes, and Clinics. K. J. Callahan¹, H. L. Hughes and P. Ma, University of North Texas, Denton, TX
- 10:00 170 130.170 Barriers to Behavior Intervention: Improving Behavioral Support Through Pyramidal Training On Treatment Fidelity Methodologies. K. B. Simon¹, M. J. Palmieri and S. M. Egan, The Center for Children with Special Needs, Glastonbury, CT
- 11:00 171 130.171 The Effectiveness of a Research-Based Parent Mediated Intervention for Youth with ASD Served in Community Service Settings. N. Stadnick¹, L. Brookman-Frazee² and A. Stahmer³, (1)San Diego State University / University of California, San Diego Joint Doctoral Program in Clinical Psychology, San Diego, CA, (2)University of California, San Diego, San Diego, CA, (3)Rady Children's Hospital, San Diego, San Diego, CA
- 12:00 172 130.172 Influence of Adaptive Behavior Functioning of Individuals with Autism Spectrum Disorder On Parental Adherence to Treatment Recommendations. K. Tang¹, A. Dammann¹, K. L. Ryan¹ and J. J. Diehl^{1,2}, (1)University of Notre Dame, Notre Dame, IN, (2)Center for Children and Families, University of Notre Dame, South Bend, IN
- 10:00 173 130.173 Peer Engagement At School. M. Kretzmann¹ and C. Kasari², (1)University of California, Los Angeles, Los Angeles, CA, (2)University of California Los Angeles, Los Angeles, CA
- 11:00 174 130.174 Title: The Social Engagement of Girls with ASD At School: Comparisons with Boys and Girls with and without ASD. M. Dean¹ and C. Kasari², (1)University of California, Los Angeles, Los Angeles, CA, (2)University of California Los Angeles, Los Angeles, CA
- 12:00 175 130.175 Theory of Mind, Friendship and Social Status in Children with Autism Spectrum Disorders. A. L. Tourelle¹, F. Pourre, J. Andanson and J. P. Raynaud, Service Universitaire de Psychiatrie de l'Enfant et de l'Adolescent, CHU de Toulouse, Toulouse, France
- 10:00 176 130.176 A Naturalistic Social Communication Intervention for Minimally Verbal Children with Autism. L. H. Hampton¹, J. D. Bryant², A. P. Kaiser², J. P. Nietfeld² and A. Khachoyan², (1)Special Education, Vanderbilt University, Nashville, TN, (2)Vanderbilt University, Nashville, TN
- 11:00 177 130.177 Early Predictors of Pragmatic Language Skills in School-Age Children with ASD. B. L. Williams¹, Psychological Studies in Education, UCLA, Los Angeles, CA
- 12:00 178 130.178 Assessment and Intervention for Disorders of Reading Comprehension in Students with Autism Spectrum Disorders. K. B. Simon¹, T. M. Newman¹, J. Rohrer¹ and M. D. Powers², (1)The Center for Children with Special Needs, Glastonbury, CT, (2)Child Study Center, Yale University, Glastonbury, CT

14:00-16:00	Educational Symposia – Auditorium Cerebellar Contribution to Autism Spectrum Disorders			14:00-18:00	Poster Sessions – Banquet Hall Cell Biological Mechanisms Neurophysiology 2 Broader Autism Phenotype Infant Cognition and Behavior Core Deficits: Language Development Common Genetic Variants in Autism Social Cognition - Theory of Mind Medical Co-Morbid Conditions Treatments: Interventions Focusing On Family (parent training, parent variables, siblings, etc) Cognition and Behavior II - Cognition
14:00-16:00	Oral Session – Chamber Hall Autism Pathways in Animal Models	Oral Session – Meeting Room 1&2 Infant Cognition and Behavior	Oral Session – Meeting Room 3 Services		
16:00-16:30	Break – Exhibit Area/Poster Area				
16:30-18:30	Educational Symposia – Auditorium ASD and ADHD: Familiially Related?				
16:30-17:30	Scientific Panel – Chamber Hall 30-Year Follow-up of Autism in Adulthood	Scientific Panel – Meeting Room 1 & 2 Novel Methods and Paradigms for Studying Early Autism: A European Perspective	Scientific Panel – Meeting Room 3 From Genes to Behavior: Translational Approaches towards a Mechanistic Understanding of Insistence On Sameness (IS) in Autism		
17:30-18:30	Scientific Panel – Chamber Hall Beyond the RCT: Extending Delivery of the Early Start Denver Model in the Real World to Foster Best Practice	Scientific Panel – Meeting Room 1 & 2 Genomic and Systems Biological Approaches to Understanding Autism Spectrum Disorder	Scientific Panel – Meeting Room 3 The Insula and Anterior Cingulate Cortex: Salience, Interoception, and Autism Symptoms		

Educational Symposium
131 - Cerebellar Contribution to Autism Spectrum Disorders

14:00 - 16:00 - Auditorium

Session Chair: T. Hensch; Harvard University

Cerebellar abnormalities in the autistic brain were first reported in the late 1980s but have remained largely unexplored from a mechanistic standpoint. This symposium links recent systems, cellular and molecular approaches which have rekindled interest. As a group, we will explore how structural and functional differences in the cerebellum contribute to the etiology and specific symptoms of autism spectrum disorder, and more importantly how these may be reversed. A functional topography has recently emerged in the human cerebellum: different regions process different types of information based on the connectivity of specific areas of the cerebellum with sensorimotor, cognitive and affective processing regions of the cerebral cortex. These findings offer a new theoretical framework within which we can examine the potential role of the cerebellum in autism. Human imaging of autistic individuals in comparison with children with cerebellar damage due to tumor removal studies will be presented. In parallel, Lurcher mutant mouse chimeras, with varying numbers of Purkinje cell loss in a time-frame that is equivalent to the last trimester in humans, have been tested for stereotypy, attention, spatial memory, and behavioral inflexibility. These will be considered in terms of the disconnection that occurs between the cerebellum and forebrain structures like the prefrontal cortex. Based upon the embryology, development, inputs, connectivity, and emerging insights into function, the cerebellum stands at the cross-roads of integration of sensory input, cognitive processing, and motor output. All three of these systems are perturbed in autism suggesting an important involvement of the cerebellum in the etiology. Yet, the pathogenesis of autism remains poorly understood, and contribution of cerebellar dysfunction to these disorders is unclear. A comprehensive time-series analysis of the genome-wide RNAs expressed every 24-hours in the mouse cerebellum from embryonic day 11 through birth and thereafter provide powerful bioinformatic tools. For instance, a gene

regulation network can be built where Neuroligin, a synaptic adhesion molecule, is a key factor. Neuroligin-3 knock-out mice exhibit disrupted hetero-synaptic competition, ectopic climbing fiber synapse formation, and perturbed metabotropic glutamate receptor- dependent synaptic plasticity (mGluR-LTD). These phenotypes could be rescued by re-expression of Neuroligin-3 in juvenile mice, highlighting the possibility for reverting neuronal circuit alterations in autism after completion of development. Specific wiring defects in cerebellar circuits reveal an unexpected convergence of synaptic patho- physiology in this non-syndromic form of autism with those in Fragile X syndrome. Tuberous sclerosis complex (TSC) provides another ideal model of syndromic autism. It is caused by mutations in either of the TSC1/2 genes upstream of mammalian target of rapamycin (mTOR), whose excessive activation is believed to be pathogenic. Novel roles for Tsc1 in Purkinje cell function now define, for the first time, a molecular basis for investigating the cerebellar contribution to cognitive disorders such as autism. Importantly, treatment of mutants with mTOR inhibitor, rapamycin, starting in early development prevents both pathological and behavioral deficits. The reversibility of both syndromic and non-syndromic mouse models offers potential treatment options for core symptoms of autism, as well as novel insight into cerebellar contributions to cognition.

- 14:00 131.001 The Cerebellum and Autism: Imaging and Clinical Evidence. C. J. Stoodley, Psychology, American University, Washington, D.C.
- 14:30 131.002 Integration of Molecular, Anatomical and Functional Roles of the Cerebellum in Autism Spectrum Disorders. D. Goldowitz, Center for Molecular Medicine and Therapeutics, University of British Columbia, Vancouver, BC, Canada
- 15:00 131.003 Cerebellar Plasticity and Wiring Defects in a Rodent Model of Non-Syndromic Autism. P. Scheiffele, Biozentrum, University of Basel, Basel, Switzerland
- 15:30 131.004 Autism in Tuberous Sclerosis: The Case for the Cerebellum. M. Sahin, Boston Children's Hospital, Boston, MA

Oral Sessions

132 - Services

14:00 - 16:00 - Meeting Room 3

- 14:00 132.001 Referral to and Contact with Early Intervention Services Among Children with Developmental Concerns. M. E. Villalobos¹, J. A. Pinto-Martin² and D. S. Mandell³, (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)University of Pennsylvania School of Nursing, Philadelphia, PA, (3)Psychiatry, Center for Mental Health Policy and Services Research, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA
- 14:15 ▶ 132.002 Examining Eligibility for Services Among Adolescents with ASD Transitioning Into Adulthood. L. J. Lawer¹, D. S. Mandell², R. I. Field¹, S. C. Marcus³ and C. J. Newschaffer⁴, (1)Drexel University, Philadelphia, PA, (2)Psychiatry, Center for Mental Health Policy and Services Research, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA, (3)University of Pennsylvania, Philadelphia, PA, (4)A.J. Drexel Autism Institute, Philadelphia, PA
- 14:30 132.003 Service Use and Needs Among Those with an ASD in Adolescence and Young Adulthood. H. L. Hayward¹, T. Cadman¹, N. Gillan², H. Eklund¹, D. M. Howley¹, J. Findon¹, H. Clarke¹, J. Zinkstok³, G. M. McAlonan¹, J. Beecham⁴, K. Xenitidis⁵, E. Simonoff⁶, D. G. Murphy⁷, P. Asherson⁸ and K. F. Glaser⁹, (1)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College London, London, United Kingdom, (2)Department of Forensic and Neurodevelopmental Sciences, King's College London, Institute of Psychiatry, London, United Kingdom, (3)Bethlem Royal Hospital, Beckenham, Kent, United Kingdom, (4)Personal Social Services Research Unit, London School of Economics and Political Science, London, United Kingdom, (5)Adult ADHD Service, Maudsley Hospital, London, United Kingdom, (6)Child & Adolescent Psychiatry, Institute of Psychiatry, King's College London, London, United Kingdom, (7)Forensic and Neurodevelopmental Sciences Department, Institute of Psychiatry, King's College London, London, United Kingdom, (8)Institute of Psychiatry, King's College London, London, United Kingdom, (9)King's College London, London, United Kingdom
- 14:45 132.004 Feasibility and Reliability of an ASD Systematic Screening Program in France. S. Baduel¹, Q. Guillon and B. Roge, Laboratoire Octogone / CERPP, University of Toulouse, Toulouse, France
- 15:00 132.005 Connections for Students with ASD: The Transition From Intensive Behavioural Intervention to School. B. Robertson¹, J. Williams², S. Hardy³ and A. Toritsyn⁴, (1)Specialized Services and Supports Branch, Ministry of Children and Youth Services, Toronto, ON, Canada, (2)Special Education Policy and Programs Branch, Ministry of Education (Ontario, Canada), Toronto, ON, Canada, (3)Ministry of Children and Youth Services, Toronto, ON, Canada, (4)Ministry of Education, Government of Ontario, Toronto, ON, Canada
- 15:15 ▶ 132.006 Pediatrician Perspectives On Identification of Autism Spectrum Disorders in Latino Children. K. E. Zuckerman^{1,2}, K. Mattox³, K. Donelan⁴, O. Bathany⁵, A. Baghaee² and C. Bethell², (1)Division of General Pediatrics, Oregon Health & Science University, Portland, OR, (2)Child & Adolescent Health Measurement Initiative, Oregon Health & Science University, Portland, OR, (3)Exercise Physiology, University of Oregon, Eugene, OR, (4)Mongan Institute for Health Policy, Massachusetts General Hospital, Boston, MA

- 15:30 ▶ 132.007 Sensitivity of Screening Toddlers At Risk of Autism Spectrum Disorders Using M-CHAT Through Mandatory Health Checkups At 18 and 36 Months in Japan. F. Someki¹, H. Ito¹, S. Nakajima¹, N. Mochizuki¹, W. Noda¹, N. Takayanagi¹ and M. Tsujii², (1)Research Center for Child Mental Development, Hamamatsu University School of Medicine, Hamamatsu, Japan, (2)Department of Contemporary Sociology, Chukyo University, Toyota, Japan
- 15:45 132.008 Examining Vocational Services for Adults with Autism. D. B. Nicholas¹, L. Zwaigenbaum², M. Clarke³, J. H. Emery⁴ and L. Ghali⁵, (1)University of Calgary, Edmonton, AB, Canada, (2)Glenrose Rehabilitation Hospital, University of Alberta, Edmonton, AB, Canada, (3)Sinneave Family Foundation, Calgary, AB, Canada, (4)Economics, University of Calgary, Calgary, AB, Canada

Oral Sessions

133 - Autism Pathways in Animal Models

14:00 - 16:00 - Chamber Hall

- 14:00 133.001 Hyperactivity and Abnormal Social and Vocal Behaviours in ProSAP1/Shank2 -/- Mice, a Model of Autism Spectrum Disorders. E. Ey¹, C. Leblond², P. Faure³, N. Torquet⁴, A. M. Le Sourd⁵ and T. Bourgeron⁶, (1)Human Genetics and Cognitive Functions, Institut Pasteur, Paris, France, (2)Institut Pasteur, Paris, France, (3)Neurobiologie des Processus Adaptatifs, CNRS UMR 7102 / Université P. & M. Curie, Paris, France, (4)UMR 2182 Gènes, Synapses et Cognition, CNRS UMR 2182, Paris, France, (5)Human Genetics and Cognitive Functions, CNRS UMR 2182, Paris, France, (6)Institut Pasteur CNRS URA 2182, Paris Diderot University, Paris, France
- 14:15 133.002 Prefrontal Circuitry Deficits in a Novel Shank3-Deficient Rat. J. D. Buxbaum^{1,2}, M. G. Baxter³, O. B. Gunal¹, H. Harony-Nicolas¹, P. R. Hof⁴, D. Papapetrou³, N. Uppal³ and F. J. Yuck³, (1)Psychiatry, Mount Sinai School of Medicine, New York, NY, (2)Genetics and Genomic sciences, Mount Sinai School of Medicine, New York, NY, (3)Neuroscience, Mount Sinai School of Medicine, New York, NY
- 14:30 133.003 At the Core of Autism: Engineered Models of 16p11.2 CNVs. A. Mills¹, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY
- 14:45 133.004 Autistic-Like Behavior and Cerebellar Dysfunction in Purkinje Cell Tsc1 Mutant Mice. P. Tsai¹, C. Hull², Y. Chu², W. Regehr² and M. Sahin¹, (1)Boston Children's Hospital, Boston, MA, (2)Harvard Medical School, Boston, MA
- 15:00 133.005 Abnormal Oxytocin Pathway in the Cntnap2 Mouse Model of ASD. O. Penagarikano¹, M. T. Lazaro¹, H. Dong¹, N. P. Murphy², N. T. Maidment², P. Golshani¹ and D. H. Geschwind³, (1)Neurology, University of California at Los Angeles, Los Angeles, CA, (2)Psychiatry and Biobehavioral Sciences, University of California at Los Angeles, Los Angeles, CA, (3)Semel Institute for Neuroscience and Human Behavior; Department of Neurology; Program in Neurogenetics; Center for Autism Research and Treatment and Center for Neurobehavioral Genetics, University of California at Los Angeles, Los Angeles, CA
- 15:15 133.006 Gender Differences in Response to Oxytocin in C57BL/6N Mice. X. Zhang¹, Q. Li¹, S. Leung¹, Wei¹, S. E. Chua¹ and G. M. McAlonan^{1,2}, (1)Department of Psychiatry, The University of Hong Kong, Pokfulam, Hong Kong, (2)Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College London, London, United Kingdom

- 15:30 133.007 Gastrointestinal Symptoms and Probiotic Treatment in a Mouse Model of an ASD Risk Factor. P. H. Patterson¹, California Institute of Technology, Altadena, CA
- 15:45 133.008 Neuroimaging Evidence of Major Morpho-Anatomical and Functional Abnormalities in the BTBR T+TF / J Mouse Model of Autism. L. Doderio¹, F. Sforazzini¹, A. Galbusera¹, M. Damiano¹, S. Tsafaris², A. Bifone¹, M. L. Scattoni³ and A. Gozzi¹, (1)Istituto Italiano di Tecnologia Center for Nanotechnology Innovation @NEST, Pisa, Italy, (2)IMT - Institutions Markets Technologies, Institute for Advanced Studies Lucca, Italy, Lucca, Italy, (3)Cell Biology and Neurosciences, Istituto Superiore di Sanità, Rome, Italy

- 15:30 134.008 Behavioural Risk Markers for Autism in Early and Later Infancy: A Prospective Study of High-Risk Siblings Using the Autism Observation Scale for Infants. I. Gammer¹, K. R. Davies², H. Ribeiro³, L. A. Tucker², A. Volein², H. Garwood², M. Elsabbagh⁴, G. Pasco¹, M. H. Johnson², T. Charman¹ and The BASIS Team⁵, (1)Centre for Research in Autism & Education, Institute of Education, London, United Kingdom, (2)Birkbeck, University of London, London, United Kingdom, (3)Centre for Brain & Cognitive Development, Birkbeck, University of London, London, United Kingdom, (4)Department of Psychiatry, McGill University, Montreal, QC, Canada, (5)BASIS, London, United Kingdom

Oral Sessions

134 - Infant Cognition and Behavior

14:00 - 16:00 - Meeting Room 1-2

- 14:00 134.001 Decreased Social Attention in 6-Month-Old Infants Later Diagnosed with ASD. K. Chawarska¹, S. Macari, D. J. Campbell, S. H. Kim, A. Dowd, K. O'Loughlin, J. Garzarek, G. M. Chen, E. B. Gisin and F. Shic, Child Study Center, Yale University School of Medicine, New Haven, CT
- 14:15 134.002 Atypical Social Attention Patterns in 6-Month-Old Infants Later Diagnosed with ASD During a Face to Face Dyadic Interaction. S. H. Kim¹, S. Macari, F. Shic, A. Dowd, K. O'Loughlin, J. Garzarek, G. M. Chen, E. B. Gisin and K. Chawarska, Child Study Center, Yale University School of Medicine, New Haven, CT
- 14:30 134.004 Sensitivity to Social Contingency in High- and Low-Risk Infants During the First Six Months of Life. S. Glazer¹, P. Lewis, A. Klin and W. Jones, Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA
- 14:45 134.005 Word Segmentation in Infants At High Risk for Autism. D. Beck-Pancer¹, T. Hutman², S. P. Johnson³, S. S. Jeste³ and M. Dapretto⁴, (1)Brain Mapping Center, University of California, Los Angeles, Los Angeles, CA, (2)University of California, Los Angeles, Los Angeles, CA, (3)UCLA, Los Angeles, CA, (4)Psychiatry and Biobehavioral Sciences, University of California, Los Angeles, Los Angeles, CA
- 15:00 134.006 Patterns of Temperament Development in Infants Who Develop ASD. S. Paterson¹, A. Estes², B. M. Winder³, C. Gilman⁴, H. Gu⁵, L. Zwaigenbaum⁶ and T. IBIS Network⁷, (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)Speech and Hearing Sciences, University of Washington, Seattle, WA, (3)Bryn Mawr College, Bryn Mawr, PA, (4)The Children's Hospital of Philadelphia, Philadelphia, PA, (5)University of North Carolina - Chapel Hill, Chapel Hill, NC, (6)Glenrose Rehabilitation Hospital, University of Alberta, Edmonton, AB, Canada, (7)University of North Carolina - Chapel Hill, Chapel Hill, NC
- 15:15 134.007 Quality of Interaction Between At-Risk Infants and Caregiver At 12-15 Months Is Associated with 3-Year Autism Outcome. M. W. Wan¹, J. Green¹, M. Elsabbagh², M. H. Johnson³, T. Charman⁴ and The BASIS Team⁵, (1)University of Manchester, Manchester, United Kingdom, (2)Department of Psychiatry, McGill University, Montreal, QC, Canada, (3)Centre for Brain & Cognitive Development, Birkbeck, University of London, London, United Kingdom, (4)Centre for Research in Autism & Education, Institute of Education, London, United Kingdom, (5)BASIS, London, United Kingdom

Poster Sessions

135 - Cell Biological Mechanisms

14:00 - 18:00 - Banquet Hall

- 14:00 1 135.001 Relationship Between Decreased Activity of Protein Kinase C and Behavioral Abnormalities in Regressive Autism. V. Chauhan¹, L. Ji² and A. Chauhan², (1)NYS Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (2)NYS Institute for Basic Research in Developmental Disabilities, Staten Island, NY
- 15:00 2 135.002 Non-Protein-Bound Iron and 4-Hydroxynonenal Protein Adducts in Autistic Spectrum Disorders. R. Canitano¹, A. Pecorelli², S. Leoncini³, C. De Felice⁴, C. Signorini³, G. Valacchi⁵, L. Ciccoli³ and J. Hayek⁴, (1)University hospital of Siena, Siena, Italy, (2)Department of Pathophysiology, Experimental Medicine & Public Health, University of Siena, Siena, Italy, (3)Department of Pathophysiology, Experimental Medicine & Public Health, University of Siena, Siena, Italy, (4)University Hospital of Siena AOUS, Siena, Italy, (5)University of Ferrara, Ferrara, Italy
- 16:00 3 135.003 Dysfunctional BDNF / TrkB / PI3K Signaling in Autism Disrupts Intracellular Pathways Regulating Spine Protein Synthesis and Dynamics. C. Nicolini¹, F. Haque², E. Menna³, M. Matteoli³, P. Szatmari⁴, E. Tongiorgi⁵ and M. Fahnstock⁶, (1)Graduate Program in Medical Sciences, McMaster University, Hamilton, ON, Canada, (2)McMaster University, Hamilton, ON, Canada, (3)Department of Medical Pharmacology and Consiglio Nazionale delle Ricerche (CNR), University of Milano, Milano, Italy, (4)Offord Centre for Child Studies & McMaster University, Hamilton, ON, Canada, (5)Dept of Life Sciences, BRAIN Centre for Neuroscience, University of Trieste, Trieste, Italy, (6)Dept. of Psychiatry & Behavioural Neurosciences, McMaster University, Hamilton, ON, Canada
- 14:00 4 135.004 Faecal Fermentation Products and Microbiota Are Altered in Children with Autism Spectrum Disorder. M. T. Angley¹, L. Wang¹, C. T. Christophersen², M. J. Sorich¹, C. P. Gerber¹ and M. A. Conlon², (1)Sansom Institute for Health Research, University of South Australia, Adelaide, Australia, (2)Preventative Health National Research Flagship, CSIRO Food and Nutritional Sciences, Adelaide, Australia
- 15:00 5 135.005 Anti-Phospholipid Antibodies in Autism Spectrum Disorders. M. Careaga^{1,2}, R. Hansen², I. Hertz-Picciotto², J. Van de Water² and P. Ashwood^{1,2}, (1)Medical Microbiology and Immunology, University of California, Davis, Davis, CA, (2)The M.I.N.D. Institute, University of California, Davis, Sacramento, CA
- 16:00 6 135.006 Autism and Phthalate Metabolite Glucuronidation. X. Ming¹, T. P. Stein², M. D. Schluter³ and R. A. Steer³, (1)Neurosciences and Neurology, UMDNJ-New Jersey Medical School, Newark, NJ, (2)Surgery, UMDNJ-School of Osteopathic Medicine, Stratford, NJ, (3)UMDNJ-School of Osteopathic Medicine, Stratford, NJ

14:00 ♦7 135.007 Static Versus Dynamic Emotion Faces Influences the Pattern of Performance and Visual Perusal in Those with High Functioning Autism and Asperger Syndrome. S. A. Cassidy¹, P. Mitchell² and P. Chapman¹, (1)School of Psychology, University of Nottingham, Nottingham, United Kingdom, (2)School of Psychology, University of Nottingham Malaysia Campus, Selangor Darul Ehsan, Malaysia

15:00 15 136.015 Is There an Overlap Between Autism and Schizophrenia? The Search for Shared Endophenotypes with Focus on Sensorimotor Gating. G. F. Madsen¹, N. Bilenberg¹, C. Cantio¹ and B. Oranje², (1)Child and Adolescent Psychiatry, University of Southern Denmark, Odense C, Denmark, (2)Center for Neuropsychiatric Schizophrenia Research (CNSR) and Center for Clinical Intervention and Neuropsychiatric Schizophrenia Research (CINS), Copenhagen University Hospital, Psychiatric Center Glostrup, Glostrup, Denmark

**Poster Sessions
136 - Neurophysiology 2**

14:00 - 18:00 - Banquet Hall

16:00 16 136.016 Comparative Study of Executive Function in Three Groups of Patients: Autism Spectrum Disorder, Attention Deficit Disorder and Hyperactivity and Autistic Spectrum Disorder with ADHD Symptoms. L. Fernandez¹, Psychiatry and Psychology, Sant Joan de Déu Hospital, Esplugues de Llobregat, Spain

14:00 8 136.008 Abnormalities of Facial Emotional Expression and Gender Processing in Autism. E. M. Sokhadze¹, A. Hinchey² and M. F. Casanova³, (1)University of Louisville, Louisville, KY, (2)University of Louisville School of Medicine, Louisville, KY, (3)Psychiatry and Behavioral Sciences, University of Louisville, Louisville, KY

14:00 17 136.017 Resting State Quantitative EEG Differences at 3 Years of Age by Risk Status and Diagnostic Outcome for Autism Spectrum Disorders. A. R. Levin¹, V. Vogel-Farley², H. Tager-Flusberg³ and C. A. Nelson⁴, (1)Neurology, Boston Children's Hospital, Boston, MA, (2)Children's Hospital Boston, Boston, MA, (3)Boston University, Boston, MA, (4)Boston Children's Hospital, Boston, MA

15:00 9 136.009 Specificity of Atypical Neural Development for Language in Infants At Risk for ASD. P. Hashim¹, M. Coffman², C. E. Mukerji², R. Tillman², D. Perszyk², J. S. Turner³, R. Travieso⁴, N. Landi⁵, L. Mayes², J. A. Persing¹ and J. C. McPartland², (1)Section of Plastic and Reconstructive Surgery, Yale University School of Medicine, New Haven, CT, (2)Yale Child Study Center, New Haven, CT, (3)Division of Plastic and Reconstructive Surgery, Montefiore Medical Center, Bronx, NY, (4)Duke University School of Medicine, Durham, NC, (5)Haskins Laboratories, New Haven, CT

15:00 18 136.018 Relative Contribution of Autistic Traits Versus Alexithymic Traits in the Neural Processing of Social Information. A. Desai¹, A. Naples¹, M. Coffman¹, C. E. Mukerji¹, R. Tillman¹, A. Kresse², R. Bernier² and J. C. McPartland¹, (1)Yale Child Study Center, New Haven, CT, (2)University of Washington, Seattle, WA

16:00 10 136.010 Processes of Risk and Resilience in the Developing Brain: Evidence From Infants at Risk for Autism. M. Elsabbagh¹, E. Mercure², K. Hudry³, G. Pasco⁴, T. Charman⁴, A. Pickles^{5,6}, M. H. Johnson² and The BASIS Team², (1)McGill University, Montreal, PQ, Canada, (2)Centre for Brain & Cognitive Development, Birkbeck, University of London, London, United Kingdom, (3)Olga Tennison Autism Research Centre, School of Psychological Science, La Trobe University, Bundoora, Australia, (4)Centre for Research in Autism & Education, Institute of Education, London, United Kingdom, (5)Institute of Psychiatry, London, United Kingdom, (6)De Crespigny Park, King's College London, London, United Kingdom

16:00 19 136.019 How Do Children with Autism Spectrum Disorders Solve False Belief Tasks? Insights from an EEG Study. A. S. Li¹, M. A. Sabbagh and E. A. Kelley, Queen's University, Kingston, ON, Canada

14:00 11 136.011 Electrophysiological Correlates of Speech Perception in 9-Month-Olds at Risk for ASD. A. Seery¹, H. Tager-Flusberg¹ and C. A. Nelson², (1)Boston University, Boston, MA, (2)Boston Children's Hospital, Boston, MA

14:00 20 136.020 Neural Correlates of Emotion Word Processing in Autism Spectrum Disorders. A. Lartseva^{1,2}, T. Dijkstra³ and J. K. Buitelaar⁴, (1)Department of Cognitive Neuroscience, Radboud University Nijmegen Medical Centre, Donders Institute for Brain, Cognition and Behaviour, Nijmegen, Netherlands, (2)International Max Planck Research School for Language Sciences, Max Planck Institute for Psycholinguistics, Nijmegen, Netherlands, (3)Donders Centre for Cognition, Radboud University Nijmegen, Nijmegen, Netherlands, (4)Department of Cognitive Neuroscience, Radboud University Nijmegen Medical Centre, Donders Institute for Brain, Cognition and Behavior, Nijmegen, Netherlands

15:00 12 136.012 Neural Sensitivity to Biological Motion Versus Audio-Visual Synchrony in Infants At Risk for Autism. R. Tillman¹, M. Rolison², G. Righi³, C. E. Mukerji¹, A. Naples¹, M. Coffman¹, J. H. Foss-Feig⁴, P. Hashim⁵ and J. C. McPartland¹, (1)Yale Child Study Center, New Haven, CT, (2)Autism Science Foundation, Scarsdale, NY, (3)Yale Child Study Center, New Britain, CT, (4)Child Study Center, Yale University, New Haven, CT, (5)Section of Plastic and Reconstructive Surgery, Yale University School of Medicine, New Haven, CT

15:00 ♦21 136.021 The Effect of Oxytocin on Sympathetic Responses While Listening to Emotional Sounds in Autism. I. F. Lin¹, M. Kashino¹, H. Ohta², T. Yamada², H. Watanabe², C. Kanai², M. Tani², T. Ohno², K. Ichihashi², Y. Takayama², A. Iwanami² and N. Kato², (1)NTT Communication Science Laboratories, NTT Corp., Atsugi, Kanagawa, Japan, (2)Showa University, Setagaya, Japan

16:00 13 136.013 Atypical Face Processing in Children with Tuberous Sclerosis Complex. S. S. Jeste¹, V. Vogel-Farley², A. Norona¹, M. Gregas², S. P. Prabhu³, M. Sahin⁴ and C. A. Nelson⁴, (1)UCLA Center for Autism Research and Treatment, Los Angeles, CA, (2)Children's Hospital Boston, Boston, MA, (3)Neuroradiology, Children's Hospital, Boston, Boston, MA, (4)Boston Children's Hospital, Boston, MA

16:00 22 136.022 ERPs Reveal Atypical Neural Response During Empathy for Physical and Social Pain in ASD. C. Mukerji¹, A. Naples¹, R. Bernier², R. Tillman¹, D. Perszyk³ and J. C. McPartland¹, (1)Yale Child Study Center, New Haven, CT, (2)University of Washington, Seattle, WA, (3)Northwestern University, Evanston, IL

14:00 14 136.014 Electroencephalographic Abnormalities and Epilepsy in Patients with Autism Spectrum Disorders. E. Barredo¹, M. C. Miranda², M. Vazquez², C. Tomatis², P. Castro² and M. Parellada³, (1)Hospital Gregorio Marañón de Madrid, Madrid, Spain, (2)Hospital General Universitario Gregorio Marañón, Madrid, Spain, (3)Child and Adolescent Psychiatry Department, CIBERSAM, Instituto de Investigación Sanitaria Gregorio Marañón, IISGM, Hospital General Universitario Gregorio Marañón, Madrid, Spain

**Poster Sessions
137 - Broader Autism Phenotype**

14:00 - 18:00 - Banquet Hall

14:00 ♦23 137.023 Single-Unit Responses to Emotional Stimuli in the Human Amygdala. O. Tudusciuc¹, U. Rutishauser², S. Wang³, A. Mamelak⁴, I. Ross⁵ and R. Adolphs³, (1)1200 E. California Blvd., Caltech, Pasadena, CA, (2)Division of Biology, California Institute of Technology, Pasadena, CA, (3)Caltech, Pasadena, CA, (4)Cedars-Sinai Medical Center, Los Angeles, CA, (5)Huntington Memorial Hospital, Pasadena, CA

- 15:00 24 137.024 The Factor Structure of Cognitive and Emotional Empathy in Individuals with Autism, Their Parents and General Population Controls. R. Grove¹, A. Baillie¹, C. Allison², S. Baron-Cohen² and R. A. Hoekstra^{2,3}, (1)Centre for Emotional Health, Department of Psychology, Macquarie University, Sydney, Australia, (2)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (3)Department of Life, Health and Chemical Sciences, The Open University, Milton Keynes, United Kingdom
- 16:00 25 137.025 Parenting Behaviour Among Parents of Toddlers with Autism Spectrum Disorder. G. Lambrechts^{1,2}, J. P. W. Maljaars^{1,2}, K. Van Leeuwen¹, B. Maes¹ and I. Noens^{1,2}, (1)Parenting and Special Education Research Unit, University of Leuven (KU Leuven), Leuven, Belgium, (2)Leuven Autism Research (LAuRes), University of Leuven (KU Leuven), Leuven, Belgium
- 14:00 ▶ 26 137.026 Autistic Traits in Parents of Children with Autism NOT ONLY Explained by the Burden of Chronic Disorder. N. Gaddour¹, N. Boussaid¹, S. Missaoui¹ and L. Gaha¹, University of Monastir, Monastir, Tunisia
- 15:00 27 137.027 Model Invariance Across Genders in the Broad Autism Phenotype Questionnaire. N. B. Cox¹, J. L. Wade² and R. E. Reeve², (1)Curry School of Education at the University of Virginia, Charlottesville, VA, (2)Clinical and School Psychology, University of Virginia, Charlottesville, VA
- 16:00 28 137.028 BAPQ As a Predictor of Child Functioning in Autism Spectrum Disorders. J. C. Bush¹, C. R. Maxwell¹, O. Hsin¹ and R. T. Schultz¹, Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA
- 14:00 29 137.029 Are Atypical Face Processing and Reduced Joint Attention Characteristics of the Broader Autism Phenotype? P. Novack¹, K. Gillespie-Lynch², J. Lee³, R. Elias⁴, P. Escudero⁵, T. Hutman⁵ and S. P. Johnson⁵, (1)Washington University in St. Louis, Saint Louis, MO, (2)City University of New York, Staten Island, NY, (3)University of California, Los Angeles, Los Angeles, CA, (4)University of California, Berkeley, Berkeley, CA, (5)MARCS Institute, University of Western Sydney, Greater Western Sydney, Australia
- 15:00 30 137.030 The Broader Autism Phenotype in Parents of Multiplex Versus Simplex Autism. E. Sucksmith¹, I. A. Roth¹, C. Allison², S. Baron-Cohen² and R. A. Hoekstra¹, (1)Department of Life, Health and Chemical Sciences, The Open University, Milton Keynes, United Kingdom, (2)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom

Poster Sessions
138 - Infant Cognition and Behavior

14:00 - 18:00 - Banquet Hall

- 14:00 31 138.031 Emergence of Social Deficits During the Second Year of Life in Infants with ASD. A. Dowd¹, E. Prince¹, E. B. Gisin¹, S. H. Kim¹, S. Macari¹ and K. Chawarska¹, Child Study Center, Yale University School of Medicine, New Haven, CT
- 15:00 32 138.032 Development of Nonverbal Communication Predicts Symptom Severity in Infants at Risk for ASD. B. E. McCarthy¹, M. Del Rosario¹, M. Sigman¹, S. P. Johnson² and T. Hutman³, (1)University of California, Los Angeles, Los Angeles, CA, (2)UCLA, Los Angeles, CA
- 16:00 33 138.033 Differences in Adaptive Socialization Skills in ASD Vs. Non-ASD Developmental Delays in the First Two Years of Life. C. A. Saulnier¹, K. E. Caravella¹, A. Klin¹ and K. Chawarska², (1)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA, (2)Child Study Center, Yale University School of Medicine, New Haven, CT

Poster Sessions

139 - Core Deficits: Language Development

14:00 - 18:00 - Banquet Hall

- 14:00 34 139.034 Intonation Differences of Children with ASD or SLI. G. Kiss¹, J. van Santen¹, E. T. Prud'hommeaux¹ and L. M. Black¹, Center for Spoken Language Understanding, Oregon Health & Science University, Beaverton, OR
- 15:00 35 139.035 Young Children with Language Difficulties: A Dimensional Approach to Subgrouping. R. M. Jansen^{1,2}, E. Ceulemans³, J. Grauwels³, I. Zink^{4,5}, J. Steyaert^{2,6} and I. Noens^{1,2}, (1)Parenting and Special Education Research Unit, University of Leuven (KU Leuven), Leuven, Belgium, (2)Leuven Autism Research (LAuRes), University of Leuven (KU Leuven), Leuven, Belgium, (3)Methodology of Educational Sciences Research Unit, University of Leuven (KU Leuven), Leuven, Belgium, (4)Experimental Oto-Rhino-Laryngology Research Unit, University of Leuven (KU Leuven), Leuven, Belgium, (5)MUCLA, University Hospitals Leuven (UZ Leuven), Leuven, Belgium, (6)Child Psychiatry, University of Leuven (KU Leuven), Leuven, Belgium
- 16:00 36 139.036 Interrater Reliability Between Parents' and Preschool Teachers' Ratings of Language in Children with Childhood Autism. A. Nordahl Hansen¹, A. Kaale² and S. E. Ulvund¹, (1)Department of Educational Science, University of Oslo, Oslo, Norway, (2)Oslo University Hospital, Oslo, Norway

Poster Sessions

140 - Common Genetic Variants in Autism

14:00 - 18:00 - Banquet Hall

- 14:00 37 140.037 A Genome Wide Association Study in Families with More Than One Child with ASDs. P. Zavattari¹, L. Boccone², R. Fadda³ and G. S. Doneddu⁴, (1)Department of Biomedical Sciences, University of Cagliari, Cagliari, Italy, (2)Ospedale Regionale Microcitemico, ASL 8, University of Cagliari, Cagliari, Italy, (3)Department of Pedagogy, Psychology and Philosophy, University of Cagliari, Cagliari, Italy, (4)Center for Pervasive Developmental Disorders, Azienda Ospedaliera Brotzu, Cagliari, Italy
- 15:00 38 140.038 Genome-Wide Investigation of Social-Communication Traits and Their Heritability in the Avon Longitudinal Study of Parents and Children - A Longitudinal Perspective. B. St. Pourcain^{1,2}, W. Mandy³, J. Golding⁴, S. M. Ring⁵, W. L. McArdle⁵, N. J. Timpson⁶, J. P. Kemp⁵, D. M. Evans⁷, D. H. Skuse⁸ and G. Davey Smith⁹, (1)MRC Centre for Causal Analysis in Translational Epidemiology, University of Bristol, Bristol, United Kingdom, (2)School of Oral and Dental Sciences, University of Bristol, Bristol, United Kingdom, (3)Division of Psychology and Language Sciences, Faculty of Brain Sciences, UCL, London, United Kingdom, (4)University of Bristol, Bristol, United Kingdom, (5)School of Social and Community Medicine, University of Bristol, Bristol, United Kingdom, (6)MRC CAiTE Centre, School of Social and Community Medicine, School of Social and Community Medicine, Bristol, United Kingdom, (7)MRC Centre for Causal Analyses in Translational Epidemiology, School of Social and Community Medicine, University of Bristol, Bristol, United Kingdom, (8)Behavioural and Brain Sciences Unit, Institute of Child Health, UCL, London, United Kingdom, (9)MRC CAiTE Centre, School of Social and Community Medicine, University of Bristol, Bristol, United Kingdom
- 16:00 ▶ 39 140.039 Norepinephrine Transporter Gene (SLC6A2) Is Quantitatively Associated with Behavioral and Cognitive Functions in Autism Spectrum Disorder. H. J. Yoo^{1,2}, I. H. Cho³, J. E. Park⁴, S. C. Cho^{2,5}, B. N. Kim^{2,5}, J. W. Kim^{2,5}, M. S. Shin^{2,5}, S. Park⁶, S. A. Kim⁶ and M. Park⁷, (1)Psychiatry, Seoul National University Bundang Hospital, Seongnam, South Korea, (2)Seoul National University College of Medicine, Seoul, South Korea, (3)Psychiatry,

- Gacheon University of Mecine and Science, Incheon, South Korea, (4)Seoul National University Bundang Hospital, Seongnam, South Korea, (5)Child and Adolescent Psychiatry, Seoul National University Hospital, Seoul, South Korea, (6)Pharmacology, Eulji University Medical College, Daejon, South Korea, (7)Epidemiology, mira@eulji.ac.kr, Daejon, South Korea
- 14:00 40 140.040 Oxytocin Receptor (OXTR) Gene Polymorphism Contributes to Ability in Face Recognition Memory. D. H. H. Skuse¹, A. Lori², I. Lee³, J. F. Cubells⁴, E. Binder⁵, T. Lehtimäki⁶, K. Puura⁷, K. Conneely² and L. J. Young⁸, (1)Institute of Child Health, University College London, London, United Kingdom, (2)Human Genetics, Emory University School of Medicine, Atlanta, GA, (3)Behavioural and Brain Sciences Unit, UCL Institute of Child Health, London, AR, United Kingdom, (4)Psychiatry and Behavioural Sciences, Emory Autism Center, Atlanta, GA, (5)Max Planck Institute of Psychiatry, Munich, Germany, (6)Clinical Chemistry, Tampere University and University Hospital, Tampere, Finland, (7)Tampere University Hospital, Tampere, Finland, (8)Emory University, Atlanta, GA
- 15:00 41 140.041 Relevance of Common CNVs for Autism Etiology. I. C. Conceicao^{1,2,3}, C. Correia^{1,2,3}, B. Oliveira^{1,2,3}, J. Coelho¹, C. Café⁴, J. Almeida⁴, S. Mouga^{4,5}, F. Duque^{4,6}, G. Oliveira^{4,5,6,7} and A. M. Vicente^{1,2,3}, (1)Instituto Nacional de Saúde Doutor Ricardo Jorge, Lisbon, Portugal, (2)Instituto Gulbenkian de Ciência, Oeiras, Portugal, (3)Center for Biodiversity, Functional & Integrative Genomics, Lisbon, Portugal, (4)Unidade de Neurodesenvolvimento e Autismo – Centro de Desenvolvimento Luís Borges (CDLB), Hospital Pediátrico Carmona da Mota (HP) – Centro Hospitalar e Universitário de Coimbra (CHUC), Coimbra, Portugal, (5)Instituto Biomédico de Investigação em Luz e Imagem, Faculdade de Medicina da Universidade de Coimbra, Coimbra, Portugal, (6)Faculdade de Medicina da Universidade de Coimbra, Coimbra, Portugal, (7)Centro de Formação e Investigação e Formação Clínica (CIFC), Hospital Pediátrico Carmona da Mota (HP) – Centro Hospitalar e Universitário de Coimbra (CHUC), Coimbra, Portugal
- Poster Sessions**
141 - Social Cognition – Theory of Mind
 14:00 - 18:00 - Banquet Hall
- 14:00 42 141.042 An Ethogram of Behaviors Guiding Dynamic Visual Scanning in 12-24-Month-Olds with Autism Spectrum Disorder. G. A. Murrain¹, A. Klin and W. Jones, Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA
- 15:00 43 141.043 Arousal and Emotion Recognition in Music Among Youth with Autism Spectrum Disorders. K. Stephenson¹, P. D. Chamberlain², D. N. Top¹, C. Nielson¹, E. M. Quintin³ and M. South⁴, (1)Brigham Young University, Provo, UT, (2)Mikle South Research Lab, Provo, UT, (3)Stanford University, Stanford, CA, (4)Department of Psychology and Neuroscience Center, Brigham Young University, Provo, UT
- 16:00 44 141.044 Atypical Interference Effect of Action Observation in Autism Spectrum Conditions. J. L. Cook^{1,2}, D. Swapp³, X. Pan⁴, N. Bianchi-Berthouze⁵ and S. J. Blakemore¹, (1)Institute of Cognitive Neuroscience, University College London, London, United Kingdom, (2)Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (3)Department of Computer Science, UCL, London, United Kingdom, (4)Department of Computer Science, UCL, London, United Kingdom, (5)UCL Interaction Centre, UCL, London, United Kingdom
- 14:00 45 141.045 Atypical Visual Processing in ASD as a Global Deficit or Local Bias: A Meta-Analysis. R. Van der Hallen¹, K. Brewaeys¹, W. Van den Noortgate² and J. Wagemans^{1,3}, (1)Laboratory of Experimental Psychology, University of Leuven (KU Leuven), Leuven, Belgium, (2)Methodology of Educational Sciences, University of Leuven (KU Leuven), Leuven, Belgium, (3)Leuven Autism Research (LAuRes), University of Leuven (KU Leuven), Leuven, Belgium
- 15:00 ▶ 46 141.046 Behavioral Study On Perception of Emotional Speech in Individuals with Autism Spectrum Disorders. K. Matsumoto^{1,2}, T. Sugiyama^{2,3}, C. Saito⁴, S. Kato², K. Kuriyama², K. Kanemoto¹ and A. Nakamura⁵, (1)Aichi Medical University, nagakute, Japan, (2)Aichi Children's Health and Medical Center, obu, Japan, (3)Child and adolescent Psychiatry, Hamamatsu University School of Medicine, hamamatsu, Japan, (4)Obu Dementia Care Research and Training Center, Obu, Japan, (5)Clinical and Experimental Neuroimaging, National Center Forgeriatrics and Gerontology, Obu, Japan
- 16:00 47 141.047 Children with Autism Following TEACCH Like School: Evolution of Their Social Cognition Through One Year and a Half. E. Thommen¹, S. Wiesendanger², B. Carier-Nelles¹ and A. Guidoux¹, (1)EESP, University of Applied Sciences Western Switzerland, Lausanne, Switzerland, (2)HEF-TS, University of Applied Sciences Western Switzerland, Givisiez, Switzerland
- 14:00 48 141.048 Components of Perspective Taking in Autism. A. B. de Marchena^{1,2}, R. Garcia-Pérez² and I. M. Eigsti¹, (1)Psychology, University of Connecticut, Storrs, CT, (2)Musicaycolor Child Psychology Music Therapy Center, Madrid, Spain
- 15:00 49 141.049 Cross-Situational Word-Face Learning in Children with ASD. H. Akechi^{1,2}, Y. Kikuchi^{1,3}, Y. Tojo³, H. Osanai⁴ and T. Hasegawa⁵, (1)Japan Society for the Promotion of Science, Tokyo, Japan, (2)Tokyo Denki University, Saitama, Japan, (3)Ibaraki University, Ibaraki, Japan, (4)Musashino Higashi Gakuen, Tokyo, Japan, (5)The University of Tokyo, Tokyo, Japan
- 16:00 50 141.050 Demands in Reflecting about Another's Intentions Modulate Vicarious Embarrassment in Autism Spectrum Disorders. F. M. Paulus¹, I. Kamp-Becker² and S. Krach³, (1)Department of Psychiatry and Psychotherapy, Philipps-University Marburg, Marburg, Germany, (2)Department of Child- and Adolescent Psychiatry and Psychotherapy, Philipps-University Marburg, Marburg, Germany, (3)Department of Psychiatry and Psychotherapy, Philipps-University Marburg, Marburg, Germany
- 14:00 51 141.051 Developmental Trend in Theory of Mind in School-Aged Japanese Children of Typical Development and with High-Functioning Autism Spectrum Disorder: Application of the Animated Version of the Theory of Mind Test. H. Fujino¹, Special Needs Education, Tokyo Gakugei University, Koganei-Shi, Japan
- 15:00 52 141.052 Does Eye Contact Enhance the Accuracy of Hand Imitation in Children with ASD?: An Eye-Tracking Study. Y. Kikuchi¹, Y. Tojo², H. Osanai³ and T. Hasegawa⁴, (1)Japan Society for the Promotion of Science, Tokyo, Japan, (2)Ibaraki University, Ibaraki, Japan, (3)Musashino Higashi Gakuen, Tokyo, Japan, (4)The University of Tokyo, Tokyo, Japan
- 16:00 53 141.053 Effects of Theory of Mind Impairment on Intelligence Testing in Low Functioning Individuals with ASD. A. San José¹, F. Happé² and R. D. Booth¹, (1)SGDP, Institute of Psychiatry, King's College London, London, United Kingdom, (2)MRC Social, Genetic & Developmental Psychiatry, Institute of Psychiatry, King's College London, London, United Kingdom
- 14:00 54 141.054 Emotion in the Voice, Emotion in the Eyes, and Emotional Intelligence and Their Relationship with Autistic Traits. M. E. Stewart¹, M. Ota², C. McAdam¹, K. De Busk², S. Peppe³ and J. Cleland³, (1)Applied Psychology, Heriot-Watt University, Edinburgh, United Kingdom, (2)University of Edinburgh, Edinburgh, United Kingdom, (3)Queen Margaret University, Edinburgh, United Kingdom

- 15:00 55 141.055 Emotion, but Not Identity Matching, Is Affected by IQ in Autism. N. Mahalalel¹ and Y. Levy^{2,3}, (1)Psychology, The Hebrew University of Jerusalem, Jerusalem, Israel, (2)Psychology Department, The Hebrew University of Jerusalem, Jerusalem, Israel, (3)Hadassah-Hebrew University Medical School, Jerusalem, Israel
- 16:00 56 141.056 Emotional Inferencing in the Reading Comprehension of Persons with Autism. M. J. Tirado Maraver¹ and D. Saldaña Sage², (1)Universidad de Sevilla, Chucena, Spain, (2)Universidad de Sevilla, Sevilla, Spain
- 14:00 57 141.057 Eye Movements in Scene Perception During Cognitive Perspective Taking. S. K. Au-Yeung¹, J. K. Kaakinen² and V. Benson¹, (1)School of Psychology, University of Southampton, Southampton, United Kingdom, (2)University of Turku, Turku, Finland
- 15:00 58 141.058 Eye-Tracking and Upright and Inverted Face Recognition Performance in Adults with an Autism Spectrum Disorder. D. Hedley^{1,2}, R. L. Young³ and N. Brewer², (1)Child Development Center, Nationwide Children's Hospital and The Ohio State University, Columbus, OH, (2)Flinders University of South Australia, Adelaide, SA, Australia, (3)Flinders University of South Australia, Adelaide, Australia
- 16:00 59 141.059 Goal-Driven Vs. Mimetic Imitation in School Children with Typical Development and Autism Spectrum Disorders. L. Jimenez¹, M. J. Lorda², B. Permuy¹ and C. Mendez¹, (1)University of Santiago, Santiago de Compostela, Spain, (2)Adapta Consultores, Santiago de Compostela, Spain
- 14:00 60 141.060 High Functioning Children with ASD Are Delayed in the Developmental Progression of Theory of Mind and in the Development of an Understanding of Teaching. J. Knutsen¹ and D. Frye², (1)University of Pennsylvania, Philadelphia, PA, (2)Applied Psychology and Human Development, University of Pennsylvania, Philadelphia, PA
- 15:00 61 141.061 Impairments in Scene Construction Ability May Underlie Difficulties with Remembering the Past and Imagining the Future in People with Autism. S. E. Lind¹, D. M. Williams¹, D. M. Bowler² and A. Peel¹, (1)Durham University, Durham, United Kingdom, (2)Autism Research Group, City University London, London, United Kingdom
- 16:00 62 141.062 Intact Face-Specific Adaptation in Autistic Adults. R. Brewer¹, R. Cook², P. Shah³ and G. Bird⁴, (1)Birkbeck, University of London, London, United Kingdom, (2)Department of Psychology, City University London, London, United Kingdom, (3)Department of Psychological Sciences, Birkbeck College, London, United Kingdom, (4)Malet St, Birbeck College, University of London, London, United Kingdom
- 14:00 63 141.063 Is There an Overlap in the Domain of Theory of Mind Between Autism Spectrum Disorders and Schizophrenia Spectrum Disorders? Exploring Quailitive Diferences. L. Boada¹, G. Lahera² and M. Parellada³, (1)Child and Adolescent Psychiatry Department, Hospital General Universitario Gregorio Marañón. Instituto de Investigación Sanitaria Gregorio Marañón. IISGM. CIBERSAM, Madrid, Spain, (2)Psychiatry, University of Alcalá, Madrid, Spain, (3)Child and Adolescent Psychiatry Department, CIBERSAM, Insituto de Investigación Sanitaria Gregorio Marañón, IISGM, Hospital General Universitario Gregorio Marañón, Madrid, Spain
- 15:00 64 141.064 Losing Face: Preschoolers with ASD Do Not Reference the Face When Decoding Intentional Actions. S. Paterson¹, J. Parish-Morris², R. M. Golinkoff³, S. Kauper⁴, R. Pulverman⁵ and K. Hirsh-Pasek⁶, (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)University of Pennsylvania, Philadelphia, PA, (3)University of Delaware, Newark, DE, (4)Children's Hospital of Philadelphia, Philadelphia, PA, (5)Delaware State University, Dover, DE, (6)Temple University, Philadelphia, PA
- 16:00 65 141.065 Metacognition and Theory of Mind in Adults with Autism Spectrum Disorder. C. S. Grainger¹, D. M. Williams² and S. E. Lind³, (1)Durham Univeristy, Durham, United Kingdom, (2)Durham University, Durham, United Kingdom, (3)Durham University, Durham City, County Durham, United Kingdom
- 14:00 ▶ 66 141.066 Movie for Assessment of Social Cognition (MASC): Validation of the Spanish Version. G. Lahera¹, L. Boada², E. Pousa³, I. Mirapeix⁴, G. Morón⁵, L. Marinas⁶, L. Gisbert⁷, M. Pamiàs⁷ and M. Parellada⁸, (1)Psychiatry, University of Alcalá, Madrid, Spain, (2)Child and Adolescent Psychiatry Department, Hospital General Universitario Gregorio Marañón. Instituto de Investigación Sanitaria Gregorio Marañón. IISGM. CIBERSAM, Madrid, Spain, (3)Salut Mental Parc Taulí, Parc Taulí. Sabadell. Hospital Universitari – UAB Universitat Autònoma de Barcelona, Barcelona, Spain, (4)Psychiatry, Príncipe de Asturias University Hospital, Madrid, Spain, (5)Child and Adolescent Psychiatry Department, Hospital General Universitario Gregorio Marañón. Instituto de Investigación Sanitaria Gregorio Marañón, IISGM, CIBERSAM, Madrid, Spain, (6)Príncipe de Asturias University Hospital, Madrid, Spain, (7)Salut Mental Parc Taulí, Parc Taulí. Sabadell. Hospital Universitari – UAB Universitat Autònoma de Barcelona, Campus d'Excellència Internacional, Barcelona, Spain, (8)Child and Adolescent Psychiatry Department, Hospital General Universitario Gregorio Marañón. Instituto de Investigación Sanitaria Gregorio Marañón. IISGM. CIBERSAM, Madrid, Spain
- 15:00 67 141.067 Overimitation in Children with Autism Spectrum Conditions. L. E. Marsh¹, D. Ropar and A. Hamilton, School of Psychology, University of Nottingham, Nottingham, United Kingdom
- 16:00 ▶ 68 141.068 Recognition and Expression of Emotions in Autism: Clinical Significance and Hierarchy of Difficulties Perceived by Parents and Experts. D. Lundqvist¹, S. Berggren¹, H. O'Reilly², S. Fridenson³, S. Tal³, S. Newman⁴, O. Golan⁵, S. Baron-Cohen² and S. Bölte¹, (1)Department of Women's and Children's Health, Center of Neurodevelopmental Disorders (KIND), Karolinska Institutet, Stockholm, Sweden, (2)Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom, (3)Department of Psychology, Bar-Ilan University, Ramat-Gan, Israel, (4)Compedia Ltd, Ramat-Gan, Israel, (5)Department of Psychology, Bar-Ilan University, Ramat Gan, Israel
- 14:00 69 141.069 Reduced Perceptual Interactions Between Dynamic Facial Elements in Autism. R. Cook¹, P. Shah² and G. Bird², (1)Department of Psychology, City University London, London, United Kingdom, (2)Department of Psychological Sciences, Birkbeck College, London, United Kingdom
- 15:00 70 141.070 Relationship Between Eye-Movement Patterns and Social Understanding in Children with an Autism Spectrum Disorder When Watching TV Soaps. K. Evers^{1,2,3}, F. Hermens^{2,4}, J. Steyaert^{1,5,6}, I. Noens^{1,7,8} and J. Wagemans^{1,2}, (1)Leuven Autism Research (LAuRes), University of Leuven (KU Leuven), Leuven, Belgium, (2)Laboratory of Experimental Psychology, University of Leuven (KU Leuven), Leuven, Belgium, (3)Child Psychiatry, Department of Neurosciences, University of Leuven (KU Leuven), Leuven, Belgium, (4)School of Psychology, University of Aberdeen, Aberdeen, Scotland, (5)Clinical Genetics, Maastricht University Hospital, Maastricht, Netherlands, (6)Child Psychiatry, University of Leuven (KU Leuven), Leuven, Belgium, (7)Parenting and Special Education Research Unit, University of Leuven (KU Leuven), Leuven, Belgium, (8)Psychiatric and Neurodevelopmental Genetics Unit, Massachusetts General Hospital, Boston, MA
- 16:00 71 141.071 Reputation Management: Evidence for Intact Ability But Reduced Propensity in Adults with Autism. E. Cage^{1,2}, E. Pellicano², P. Shah¹ and G. Bird³, (1)Birkbeck College, London, United Kingdom, (2)Centre for Research in Autism & Education, London, United Kingdom, (3)Department of Psychological Sciences, Birkbeck College, London, United Kingdom
- 14:00 72 141.072 Self-Presentation in Children and Adolescents with High-Functioning ASD. A. M. Scheeren¹, H. M. Koot¹ and S. Begeer^{1,2}, (1)VU University, Amsterdam, Netherlands, (2)University of Sydney, Sydney, Australia

- 15:00 73 141.073 Self-Projection in Autism Spectrum Disorders. J. J. Finnemann^{1,2}, M. Brun^{1,R}, Benoit³ and S. J. White¹, (1)Institute of Cognitive Neuroscience, University College London, London, United Kingdom, (2)Department of Psychology, University of Cambridge, Cambridge, United Kingdom, (3)MRC Cognition and Brain Sciences Unit, Cambridge, United Kingdom
- 16:00 74 141.074 Sensitivity to Emotional Stimuli in Autism Spectrum Disorder: The Effect of Emotional Images On Time Perception. C. Jones¹, S. B. Gaigg² and A. Lambrechts², (1)Department of Psychology, University of Essex, Colchester, United Kingdom, (2)Autism Research Group, City University London, London, United Kingdom
- 14:00 75 141.075 Social and Non-Social Threat Detection in Autism Spectrum Disorders. W. Worsham¹, M. J. Larson² and M. South², (1)Department of Psychology, Brigham Young University, Provo, UT, (2)Department of Psychology and Neuroscience Center, Brigham Young University, Provo, UT
- 15:00 76 141.076 Social-Communicatively Cued Versus Goal-Directed Intention Understanding in Children with ASD. N. I. Berger¹ and B. Ingersoll, Michigan State University, East Lansing, MI
- 16:00 77 141.077 Spanish Validation of A New and Advanced Test of Theory of Mind: Kaland's Stories from Everyday Life. O. Puig Navarro¹, S. Lera Miguel², M. J. Rosa³, J. Castro-Fornieles⁴, N. Kaland⁵ and R. Calvo Escalona⁴, (1)SGR 1119, Barcelona, Spain, (2)Child and Adolescent Psychiatry and Psychology Department, Hospital Clinic of Barcelona, Barcelona, Spain, (3)Fundació Clínic per la Recerca Biomèdica, Barcelona, CAT, Spain, (4)Child and Adolescent Psychiatry, Hospital Clinic of Barcelona, Barcelona, Spain, (5)Department of Social Sciences, Lillehammer University College, Lillehammer, Norway
- 14:00 78 141.078 Testing Sensitivity to Emotional Prosody in Minimally-Verbal LFA. J. Chiew¹ and M. M. Kjelgaard^{2,3}, (1)Neurology, Beth Israel Deaconess Medical Center and Harvard Medical School, Boston, MA, (2)Communication Sciences and Disorders, MGH Institute of Health Professions, Boston, MA, (3)Brain and Cognitive Sciences, MIT, Cambridge, MA
- 15:00 79 141.079 The Influence of Typical Siblings On the Social-Communicative Behaviour and Theory of Mind Development in Children with Autism. K. A. O'Brien¹, V. P. Slaughter and C. C. Peterson, The Schools of Psychology, The University of Queensland, Brisbane, Australia
- 16:00 80 141.080 The Relationship Between Fantasy and Empathy Among Young Adults with Autism Spectrum Disorders. M. K. Kalies^{1,2}, M. M. Wasserman^{3,4}, R. Ellingsen⁵, J. Hopkins¹ and E. Laugeson⁶, (1)Department of Psychiatry, UCLA PEERS Clinic, Los Angeles, CA, (2)Pepperdine University Graduate School of Education and Psychology, Los Angeles, CA, (3)Pepperdine University, Los Angeles, CA, (4)The Help Group - UCLA Autism Research Alliance, Sherman Oaks, CA, (5)University of California Los Angeles, Venice, CA, (6)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA
- 14:00 81 141.081 The Relationship Between Autistic Traits, Depressed Mood and Social Problem-Solving. S. Jackson¹ and B. Dritschel², (1)School of Psychology and Neuroscience, University of St Andrews, St Andrews, United Kingdom, (2)University of St. Andrews, St. Andrews, United Kingdom
- 15:00 82 141.082 The Validity and Scalability of the Five-Item Theory of Mind Scale for Use with Toddlers and Pre-Schoolers. N. Weber¹, R. Hiller and R. L. Young, School of Psychology, Flinders University, Adelaide, Australia
- 16:00 83 141.083 Theory of Mind and Underlying Cognitive Mechanisms in Children with an Extra X Chromosome. S. Van Rijn¹, Leiden University, Leiden, Leiden, Netherlands
- 14:00 84 141.084 Thinking About What Isn't True: Influences of Context, Processing Style and Emotional State On Reasoning Among Children with Autism. R. McKenzie¹, Plymouth University, Plymouth, United Kingdom
- 15:00 85 141.085 Understanding Other People: Theory of Mind in Toddlers and Preschoolers with Autism Spectrum Disorder. E. Broekhof¹, K. A. Bruidemom¹, L. Ketelaar¹, L. Stockmann² and C. Rieffe¹, (1)Leiden University, Leiden, Netherlands, (2)Centrum Autisme Rivierduinen, Leiden, Netherlands
- 16:00 86 141.086 Using Visual Adaptation to Explore Facial Emotion Expression Representation in Relation to Autism Traits. P. C. Griffiths¹, C. Ashwin and M. Brosnan, Psychology, University of Bath, Bath, United Kingdom
- 14:00 87 141.087 Visual Fixation Patterns During Emotional Face-Voice Matching. R. B. Grossman^{1,2} and T. Mitchell², (1)Communication Sciences and Disorders, Emerson College, Boston, MA, (2)Psychiatry, University of Massachusetts Medical School Shriver Center, Waltham, MA
- 15:00 88 141.088 Your Goal Is Not Mine: Absence of Mimetic Desire in Autism Spectrum Disorder. B. Forgeot d'Arc^{1,2}, M. Lebreton³, I. Soulières⁴, L. Mottron⁵ and M. Pessiglione^{6,7,8}, (1)Centre de Recherche en Santé Mentale de l'Université de Montréal, Montréal, QC, Canada, (2)Service de Recherche, Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM), Montréal, QC, Canada, (3)Institut du Cerveau et de la Moelle, Paris, France, (4)University of Quebec in Montreal, Montreal, QC, Canada, (5)Service de Recherche, Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada, (6)INSERM, Paris, France, (7)Institut du Cerveau et de la Moelle, Paris, France, (8)Université Pierre et Marie Curie, Paris, France

Poster Sessions

142 - Medical Comorbid Conditions

14:00 - 18:00 - Banquet Hall

- 14:00 89 142.089 Association Between Sensory Behavior and Pupillary Light Reflex in Children with Autism Spectrum Disorders. C. L. Daluwatte¹, J. H. Miles², J. Sun³ and G. Yao⁴, (1)Department of Biological Engineering, University of Missouri, Columbia, MO, (2)Thompson Center at the University of Missouri, Columbia, MO, (3)Department of Statistics, University of Missouri Columbia, Columbia, MO, (4)Department of Biological Engineering, University of Missouri Columbia, Columbia, MO
- 15:00 90 142.090 Autism Symptoms and Behavioural Disturbances in ~500 Children with Down Syndrome in England and Wales. G. Warner¹ and P. Howlin², (1)Institute of Psychiatry, London, England, United Kingdom, (2)Department of Psychology, Institute of Psychiatry, King's College London, London, United Kingdom
- 16:00 91 142.091 Autism and Maple Syrup Urine Disease: A Case Report. R. Colak, S. Yilmaz and S. Herguner¹, Department of Child and Adolescent Psychiatry, NE University, Meram Faculty of Medicine, Konya, Turkey
- 14:00 92 142.092 Autistic Children with EEG Abnormalities and / or Epilepsy: Clinical Characterization in Two Independent Samples. R. Sacco^{1,2}, S. Giovinazzo³, P. Curatolo⁴ and A. M. Persico^{5,6}, (1)Child and Adolescent Neuropsychiatry Unit, Univ. Campus Bio-Medico, Rome, Italy, (2)IRCCS "Fondazione Santa Lucia", Rome, Italy, (3)Child and Adolescent Neuropsychiatry Unit, Univ. of Rome, Rome, Italy, (4)Child and Adolescent Neuropsychiatry Unit, Univ. of Rome 'Tor Vergata', Rome, Italy, (5)Child and Adolescent NeuroPsychiatry Unit, Laboratory of Molecular Psychiatry and Neurogenetics, University Campus Bio-Medico, Rome, Italy, (6)Fondazione Santa Lucia, IRCCS, Rome, Italy

- 15:00 93 142.093 Early Diagnostic Differences Between Children Diagnosed with Autism Spectrum Disorders (ASD) and Children with Comorbid ASD and Mitochondrial Disease. K. N. Sargent¹, R. Morris², D. L. Robins³ and J. Shoffner⁴, (1)Psychology, Georgia State University, Atlanta, GA, (2)Georgia State University, Atlanta, GA, (3)Department of Psychology, Georgia State University, Atlanta, GA, (4)Medical Neurogenetics, Atlanta, GA
- 16:00 ▶ 94 142.094 Factors Associated with Irritability in Children with Autism Spectrum Disorder Compared to Children with Other Developmental Disabilities. M. D. Valicenti-McDermott¹, K. Lawson, K. Hottinger, R. M. Seijo, L. H. Shulman, M. Schechtman and S. Shinnar, Albert Einstein College of Medicine, Bronx, NY
- 14:00 95 142.095 Fragile X, Intermediate, and Premutation Alleles in the Autism Genetic Resource Exchange (AGRE). W. T. Brown¹, A. Glicksman, X. H. Ding, N. Ersalesi, C. Dobkin and S. Nolin, New York State Institute for Basic Research in Developmental Disabilities, Staten Island, NY
- 15:00 96 142.096 Gene Expression Profiles of Inflamed Ileocolonic Biopsy Tissue in GI Symptomatic ASD Children Are Consistent with an Inflammatory Bowel Disease. S. J. Walker¹, Wake Forest Institute for Regenerative Medicine, Winston-Salem, NC
- 16:00 97 142.097 Mental and Physical Health in Youth and Adults with Autism Spectrum Disorders in Ontario Canada: Findings From a Community-Based Sample. K. P. Stoddart^{1,2}, L. J. Burke¹, B. Muskat³, J. Manett¹, S. Duhaime^{1,4}, C. Accardi¹ and P. Burnham Riosa^{1,3}, (1)The Redpath Centre, Toronto, ON, Canada, (2)Factor-Inwentash Faculty of Social Work, University of Toronto, Toronto, ON, Canada, (3)The Hospital for Sick Children, Toronto, ON, Canada, (4)Autism Ontario, Toronto, ON, Canada
- 14:00 98 142.098 Mitochondrial Reserve Capacity in Peripheral Blood Mononuclear Cells Is Related to Development and Glutathione Redox Status in Children with Autism Spectrum Disorder. R. E. Frye¹, S. Rose², J. Slattery³, R. A. Wynne³, S. Melnyk⁴ and S. J. James², (1)Arkansas Children's Hospital Research Institute, Little Rock, AR, (2)University of Arkansas for Medical Sciences, Little Rock, AR, (3)Arkansas Children's Hospital, Little Rock, AR, (4)Pediatrics, University of Arkansas for Medical Sciences, Little Rock, AR
- 15:00 99 142.099 Molecular Characterization of Gastrointestinal Microbiota in Children with Autism (Both With and Without Gastrointestinal Dysfunction) and Their Neurotypical Siblings. S. V. Gondalia¹, Swinburne University of Technology, Hawthorn, VIC, Australia
- 16:00 100 142.100 Neurological Abnormalities Among 16p11.2 Deletion and Duplication Carriers. K. J. Steinman^{1,2}, S. J. Spence³, M. B. Ramocki⁴, M. Proud⁵, E. Marco⁵, S. K. Kessler⁶, S. M. Kanne⁷, A. Stevens², A. V. Snow³, R. Bernier², R. P. Goin-Kochel⁸, E. Hanson³ and E. Sherr⁹, (1)Seattle Children's Research Institute, Seattle, WA, (2)University of Washington, Seattle, WA, (3)Children's Hospital Boston, Boston, MA, (4)Baylor College of Medicine, Houston, TX, (5)University of California San Francisco, San Francisco, CA, (6)Children's Hospital of Philadelphia, Philadelphia, PA, (7)Baylor College of Medicine, Missouri City, TX, (8)Pediatrics, Psychology Section, Baylor College of Medicine, Houston, TX, (9)Neurology, UCSF, San Francisco, CA
- 14:00 101 142.101 Outcomes of Children with Cochlear Implant-Assisted Hearing and Autism Spectrum Disorder. M. P. Charlton¹, Department of Developmental Medicine, Royal Children's Hospital, Victoria, Australia; Cochlear Implant Clinic, Royal Victorian Eye and Ear Hospital, Victoria, Australia; Taralye Oral Language Centre for Deaf Children, Victoria, Australia
- 15:00 102 142.102 Overgrowth in Autism Spectrum Disorders: Possible Link with Susceptibility to Seizures or EEG Abnormalities. G. Valvo¹, S. Baldini¹, F. Brachini¹, F. Apicella², A. R. Ferrari¹, R. Guerrini³, M. Marchese⁴, F. Moro⁴, F. Muratori², F. M. Santorelli⁴, R. Tancredi² and F. Sicca¹, (1)Epilepsy, Neurophysiology and Neurogenetics Unit, Stella Maris Scientific Institute, PISA, Italy, (2)University of Pisa – Stella Maris Scientific Institute, Pisa, Italy, (3)Meyer Pediatric Hospital, University of Florence, Firenze, Italy, (4)Molecular Medicine Unit, Stella Maris Scientific Institute, PISA, Italy
- 16:00 103 142.103 Overweight and Obesity: Prevalence and Correlates in a Large Clinical Sample. K. Guion¹, L. Voltolina¹, J. B. Roulet¹, M. Wolf¹, R. D. Steiner¹, K. E. Zuckerman², L. Huang-Storms³ and E. Fombonne⁴, (1)Oregon Health & Science University, Portland, OR, (2)Division of General Pediatrics, Oregon Health & Science University, Portland, OR, (3)CDRC, Oregon Health & Science University, Portland, OR, (4)Psychiatry, Oregon Health and Sciences University, Portland, OR
- 14:00 104 142.104 Parent-Based Sleep Education for Children with Autism — Role of Socioeconomic Status. K. W. Adkins¹, A. M. Reynolds², S. Weiss³, A. Loh³, T. Katz², S. E. Goldman¹, N. Madduri¹, T. Clemons⁴ and B. A. Malow¹, (1)Vanderbilt University, Nashville, TN, (2)University of Colorado Denver, Aurora, CO, (3)Hospital for Sick Children, University of Toronto, Toronto, ON, Canada, (4)The Emmes Corporation, Rockville, MD
- 15:00 105 142.105 Potential Link Between Anxiety and Insomnia in Individuals with Autism Spectrum Disorders. M. C. Souders¹, C. M. Puleo², A. Bennett³, L. N. Berry⁴, I. Giserman⁵, W. T. Eriksen⁶, R. T. Schultz⁷ and J. D. Herrington⁸, (1)University of Pennsylvania / The Children's Hospital of Philadelphia, Swarthmore, PA, (2)Temple University, Philadelphia, PA, (3)Children's Hospital of Philadelphia, Philadelphia, PA, (4)Autism Center, Texas Children's Hospital, Houston, TX, (5)The Children's Hospital of Philadelphia, Philadelphia, PA, (6)University of Pennsylvania School of Nursing, Philadelphia, PA, (7)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (8)Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA
- 16:00 106 142.106 Prevalence of Overweight and Obesity in Youth with Autism Spectrum Disorders. R. P. Nash¹, E. Park² and L. Sikich³, (1)ASPIRE, Psychiatry, University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)ASPIRE; Psychiatry, University of North Carolina at Chapel Hill, Chapel Hill, NC, (3)ASPIRE Research Program, UNC-CH, Chapel Hill, NC
- 14:00 107 142.107 Relationship Between Salivary Cortisol and Serum Testosterone in Boys with Autism. A. M. Neumeyer^{1,2}, A. Gates³, C. Ferrone⁴ and M. Misra⁵, (1)Massachusetts General Hospital / Harvard Medical School, Lexington, MA, (2)Lurie Center for Autism, Massachusetts General Hospital / Harvard Medical School, Lexington, MA, (3)Lurie Center for Autism, Massachusetts General Hospital, Lexington, MA, (4)Massachusetts General Hospital, Lexington, MA, (5)Pediatric Endocrinology, Massachusetts General Hospital / Harvard Medical School, Boston, MA
- 15:00 ♦ 108 142.108 Motor Abnormalities in Children with Phelan-McDermid Syndrome and Autism Spectrum Disorders. K. Bellesheim¹, T. Tavassoli¹, A. Kolevzon¹, L. Schwartz¹ and J. D. Buxbaum², (1)Seaver Autism Center for Research and Treatment, Mount Sinai School of Medicine, New York, NY, (2)Psychiatry, Mount Sinai School of Medicine, New York, NY

- 16:00 109 142.109 The Child Sleep Habits Questionnaire in Children with Autism Spectrum Disorders. T. Katz¹, S. E. E. Goldman², B. A. Malow², A. Shui³, S. J. Asghar², A. Bennett⁴, K. Byars⁵, H. Connolly⁶, D. Glaze⁷, S. E. Levy⁸, M. T. Ott⁹, I. Perez¹⁰, A. M. Reynolds¹, K. Sohl¹¹, M. C. Souders¹², S. Weiss¹³ and M. Witmans¹⁴, (1)University of Colorado Denver, Aurora, CO, (2)Vanderbilt University, Nashville, TN, (3)Massachusetts General Hospital for Children, Boston, MA, (4)Children's Hospital of Philadelphia, Philadelphia, PA, (5)Cincinnati Children's Hospital Medical Center, Cincinnati, OH, (6)University of Rochester Medical Center, Rochester, NY, (7)Baylor College of Medicine, Houston, TX, (8)Division of Child Development, Children's Hospital of Philadelphia, Philadelphia, PA, (9)Division of Child Development, Children's Hospital of Philadelphia, Philadelphia, PA, (10)Children's Hospital Los Angeles, University of Southern California, Los Angeles, CA, (11)University of Missouri - Thompson Center, Columbia, MO, (12)University of Pennsylvania School of Nursing / The Children's Hospital of Philadelphia, Philadelphia, PA, (13)Hospital for Sick Children, University of Toronto, Toronto, ON, Canada, (14)University of Alberta and Stollery Children's Hospital, Edmonton, AB, Canada
- 14:00 110 142.110 The Relationship Between Sleep and Health-Related Quality of Life Amongst Children with Autism Spectrum Disorders. J. Delahaye¹, D. Sikora², T. Hall³, F. Orlich⁴, E. Kovacs⁵, T. Clemons⁶ and K. Kuhlthau⁷, (1)Pediatrics, Massachusetts General Hospital, Boston, MA, (2)Providence Neurodevelopmental Center for Children, Portland, OR, (3)Psychology, Oregon Health and Science University, Meridian, ID, (4)University of Washington, Seattle, WA, (5)Psychiatry, Columbia University, New York, NY, (6)The Emmes Corporation, Rockville, MD, (7)Pediatrics, Harvard Medical School, Boston, MA
- 15:00 111 142.111 The Role of Epilepsy in ASD. R. Canitano¹ and V. Scandurra², (1)University Hospital of Siena, Siena, Italy, (2)Child Neuropsychiatry, University Hospital of Siena, Siena, Italy
- 16:00 112 142.112 Verbal Ability As a Predictor of Sleep and Gastrointestinal Comorbidities in Children with Autism Spectrum Disorder. R. S. Mankoo¹, K. Hughes², T. N. Takahashi³, B. J. Ferguson⁴ and K. Sohl⁵, (1)School of Medicine, University of Missouri, Columbia, MO, (2)University of Missouri Thompson Center for Autism and Neurodevelopmental Disorders, Columbia, MO, (3)University of Missouri Thompson Center for Autism & Neurodevelopmental Disorders, Columbia, MO, (4)University of Missouri-Columbia, Columbia, MO, (5)University of Missouri, Columbia, MO
- 16:00 115 143.115 Brief Parent Training for Parents of Children with Autism Spectrum Disorders: An Exploration of Parents' Stage of Change and Implications for Treatment. S. Wilson-Loupée¹, Clinical Psychology, The Chicago School of Professional Psychology, Chicago, IL
- 14:00 116 143.116 Comparison Between Special Education and "Keshet"- Parental Training Integrative Program — Can the Parents Choose? L. Gabis¹, M. Lux², T. Pilowsky Peleg³, S. Shefer⁴, R. Sofrin⁵ and J. Evron⁵, (1)Tel Aviv University, Rehovot, Israel, (2)Weinberg Child Development Center, Safra Children's Hospital, Tel Hasomer, Israel, (3)Tel Aviv Yaffo Academic College, Tel Aviv, Israel, (4)The Sheba Medical Center The Weinberg Child Development Center, Ramat Gan, Israel, (5)Sheba Medical Center, Weinberg Child Development Center, Israel, Ramat Gan, Israel
- 15:00 117 143.117 From the Community to the Lab (and Back): Identifying Important Treatment Components of a Parent Training Intervention. B. Ingersoll¹, Michigan State University, East Lansing, MI
- 16:00 118 143.118 Linear Versus Multiphase Models Testing Outcomes for Infants at Risk for ASD in a Randomized Controlled Trial of a Parent-Mediated Intervention. G. T. Baranek¹, L. R. Watson², L. Turner-Brown³, S. Field⁴, E. Crais², L. Wakeford² and L. M. Little⁵, (1)Allied Health Sciences, University of North Carolina at Chapel Hill, Chapel Hill, NC, (2)University of North Carolina at Chapel Hill, Chapel Hill, NC, (3)University of North Carolina at Chapel Hill, Chapel Hill, NC, (4)Frank Porter Graham Child Development Institute, University of North Carolina at Chapel Hill, Chapel Hill, NC, (5)University of North Carolina at Chapel Hill, Chapel Hill, NC
- 14:00 119 143.119 Evaluating Interventions in Autism: A Parent Educational Group Program. K. L. Berquist¹, G. Y. Lee², C. M. Ardel³ and A. Y. Hardan⁴, (1)Stanford University School of Medicine / Lucile Packard Children's Hospital, Stanford, CA, (2)Stanford University, Cupertino, CA, (3)Stanford University, Stanford, CA, (4)Psychiatry and Behavioral Sciences, Stanford University School of Medicine, Stanford, CA
- 15:00 120 143.120 How Does Parent Inclusion in Playground Teaching and Parent-Child Interactive Style Affect the Effectiveness of EIBI On Play and Peer Engagement of Children with ASD? K. Strauss¹, M. Esposito², G. Valeri³, S. Vicari³, B. Monopoli⁴, M. T. Dipierro⁵ and L. Fava², (1)Autism Treatment and Research Centre "Una Breccia nel Muro", Rome, Italy, (2)Autism Treatment and Research Center "Una Breccia nel Muro", Rome, Italy, (3)Neuroscience Department, Child Neuropsychiatry Unit, "Children's Hospital Bambino Gesù", Rome, Italy, (4)Autism Research and Treatment Center, Rome, Italy, (5)Autism Treatment and Research Center "Una Breccia nel Muro", Rome, Italy
- 16:00 121 143.121 The Effects of Parental Intervention on Emotion Recognition of Children with ASD: Preliminary Results of a Randomized Controlled Trial. R. Rosenan¹, T. Gev¹, H. Avital² and O. Golan², (1)Department of Psychology, Bar-Ilan University, Ramat-Gan, Israel, (2)Department of Psychology, Bar-Ilan University, Ramat Gan, Israel
- 14:00 122 143.122 An Approach to Assessing Parent-Child Interaction in Autism. F. Larkin¹, S. Guerin¹ and J. A. Hobson², (1)Psychology, University College, Dublin, Dublin, Ireland, (2)Institute of Child Health, UCL, London, United Kingdom
- 15:00 123 143.123 The Impact of Parent Training On Parents' Use of Specific Pivotal Response Treatment Strategies. C. Pacia¹, H. E. Flanagan², I. M. Smith³, K. Meko² and D. Chitty², (1)University College Cork, Cork, Ireland, (2)IWK Health Centre, Halifax, NS, Canada, (3)Dalhousie / IWK Health Centre, Halifax, NS, Canada
- 16:00 124 143.124 Parents and Their Toddlers with Autism: The Impact of the More Than Words Parent-Training Program. V. Smith¹ and S. Patterson², (1)University of Alberta, Edmonton, AB, Canada, (2)University of California, Los Angeles, Los Angeles, CA

Poster Sessions

143 - Treatments: Interventions Focusing on Family (parent training, parent variables, siblings, etc.)

14:00 - 18:00 - Banquet Hall

- 14:00 113 143.113 Parent Mediated Early Intervention in Young Children with Autism Spectrum Disorder (ASD): A Systematic Review and Meta-Analysis. I. P. Oono¹, E. Honey² and H. McConachie³, (1)Newcastle University, Newcastle Upon Tyne, United Kingdom, (2)Newcastle University, Newcastle Upon Tyne, England, (3)Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom
- 15:00 114 143.114 A New Model of Therapy Mediated by Parents for Children with Autism and Pervasive Developmental Disorder. C. Napolitano¹, G. Valeri² and S. Vicari³, (1)Neuropsychiatry, Paediatric Hospital Bambino Gesù in Rome, Rome, Italy, (2)Children's Hospital Bambino Gesù, Roma, Italy, (3)Paediatric Hospital Bambino Gesù, Rome, Italy

- 14:00 125 143.125 Promoting Social Responsiveness Between Primary Caregivers and Children with Autism. E. M. M. Maher¹, Faculty of Education and Social Work, University of Sydney, Sydney, Australia
- 15:00 126 143.126 Effects of Parent- and Therapist-Delivered Intervention for Toddlers with Autism On Parent Stress and Sense of Competence: A Multi-Site, Randomized Trial. A. M. Estes¹, L. A. Vismara², A. L. Fitzpatrick³, J. Winter⁴, J. G. Greenson⁴, M. L. Rocha⁵, G. Dawson⁶, C. Lord⁷ and S. J. Rogers⁸, (1)Speech and Hearing Sciences, University of Washington, Seattle, WA, (2)University of California at Davis M.I.N.D. Institute, Sacramento, CA, (3)Epidemiology, University of Washington, Seattle, WA, (4)University of Washington, Seattle, WA, (5)UC Davis M.I.N.D. Institute, Sacramento, CA, (6)Autism Speaks, UNC Chapel Hill, Chapel Hill, NC, (7)Center for Autism and the Developing Brain, Weill Cornell Medical College, White Plains, NY, (8)Psychiatry and Behavioral Sciences, M.I.N.D. Institute; University of California at Davis, Sacramento, CA
- 16:00 127 143.127 Social Functioning and Parental Well-Being in Preschoolers with ASD. A. M. Rowley^{1,2}, D. Coman³, A. Gutierrez² and M. Alessandri⁵, (1)Nova Southeastern University, Davie, FL, (2)University of Miami, Coral Gables, FL, (3)University of Miami, Miami, FL, (4)Psychology, Florida International University, Miami, FL, (5)Psychology and Pediatrics, University of Miami, Coral Gables, FL
- 14:00 128 143.128 Parent-Mediated Intervention to Improve the Perceptions of Mothers of Children with Autism Spectrum Disorder. A. Gerber¹, M. Siller¹, T. Hutman² and M. Sigman², (1)Psychology, Hunter College of the City University of New York, New York, NY, (2)University of California, Los Angeles, Los Angeles, CA
- 15:00 129 143.129 Does Broader Autism Phenotype in Mothers Affect Their Child's Degree of Progress Following Parent-Mediated Intervention? S. Wigham¹, L. Gray², A. S. Le Couteur³, H. McConachie⁴ and J. Parr⁵, (1)Newcastle University Institute of Health and Society, Newcastle upon Tyne, NE1 4LP, United Kingdom, (2)Institute of Neuroscience, Newcastle University, Newcastle upon Tyne, United Kingdom, (3)Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom, (4)Newcastle University, Newcastle upon Tyne, United Kingdom, (5)Institute of Neuroscience, Newcastle University, Newcastle, United Kingdom
- 16:00 130 143.130 Effect of Parent Expectancies of CHILD Therapy On Perceived Therapy Outcomes in Children with Autism Spectrum Disorder. A. Dammann¹, K. Tang and J. J. Diehl, University of Notre Dame, Notre Dame, IN
- 14:00 131 143.131 Measuring Sociodemographic Risk in Families of Very Young Children Receiving Early Autism Intervention. J. Winter¹, A. Estes², Z. Zargar^{1,3}, J. G. Greenson¹, M. L. Rocha⁴, L. A. Vismara⁵, A. L. Fitzpatrick¹ and S. J. Rogers⁶, (1)University of Washington, Seattle, WA, (2)Speech and Hearing Sciences, University of Washington, Seattle, WA, (3)University of Washington, Bothell, WA, (4)UC Davis M.I.N.D. Institute, Sacramento, CA, (5)University of California at Davis M.I.N.D. Institute, Sacramento, CA, (6)M.I.N.D. Institute and Department of Psychiatry and Behavioral Sciences, University of California Davis Medical Center, Sacramento, CA
- 15:00 132 143.132 The Autism Course for Spouses Is an Effective Training Program. E. M. Blijd-Hoogewys¹ and A. Talboom², (1)Autism Team North-Netherlands, Lentis, Groningen, Netherlands, (2)MEE Drenthe, Assen, Netherlands
- 16:00 133 143.133 The Importance of the Quality of the Coparenting Partnership in Predicting Parenting Stress in Parents of Children with an ASD. C. D. May¹, R. Fletcher², I. Dempsey² and L. Newman⁴, (1)Family Action Centre, University of Newcastle, Callaghan, NSW, Australia, (2)Family Action Centre, University of Newcastle, Callaghan NSW, Australia, (3)Faculty of Education, University of Newcastle, Callaghan, NSW, Australia, (4)Child Psychiatry, Monash University, Victoria, Australia

- 14:00 ♦134 143.134 Parent-Led Intervention Method to Increase Eye Contact Initiation in Young Children with Autism Spectrum Disorder. M. Muuvila¹, J. K. Hietanen², K. Eriksson³ and A. Kylliäinen², (1)Child Psychiatry Unit, Tampere University Hospital, Tampere, Finland, (2)School of Social Sciences and Humanities / Psychology, University of Tampere, Tampere, Finland, (3)Pediatric Neurology Unit, Tampere University Hospital, Tampere, Finland

Poster Sessions

144 - Cognition and Behavior II – Cognition

14:00 - 18:00 - Banquet Hall

- 14:00 135 144.135 An Empirical Analysis of the BASC Executive Function Content Scale with Individuals with ASD. E. Gardiner¹, S. M. Hutchison², K. Kerns² and G. Iarocci¹, (1)Department of Psychology, Simon Fraser University, Burnaby, BC, Canada, (2)Psychology, University of Victoria, Victoria, BC, Canada
- 15:00 136 144.136 An Eye-Tracking Study of Visual Attention to Human and Nonhuman Animals, Landscapes and Abstract Patterns in Young Children with Autism Spectrum Disorder. D. Plesa Skwerer¹, Psychology, Boston University, Boston, MA
- 16:00 137 144.137 Assessing the Perceptual Origins of Cognitive Peaks in Autism. V. M. Doobay^{1,2}, V. A. Bao^{1,2}, D. Tullio¹, L. Mottron³ and A. Bertone^{1,2,4}, (1)Perceptual Neuroscience Laboratory for Autism and Development (PNLab), Montreal, QC, Canada, (2)School / Applied Child Psychology, Department of Educational and Counselling Psychology, McGill University, Montreal, QC, Canada, (3)Service de Recherche, Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada, (4)Service de Recherche, Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada
- 14:00 ▶ 138 144.138 Attention Deficits On the Continuous Performance Test in Youths with Autism Spectrum Disorders and Their Unaffected Siblings. Y. L. Chien¹ and S. S. F. Gau, Department of Psychiatry, National Taiwan University Hospital, Taipei, Taiwan
- 15:00 139 144.139 Attention to Social and Mechanical Objects in Relation to Autism Traits and Social Anxiety. J. Black¹, C. Ashwin² and M. Brosnan², (1)University of Bath, Bath, United Kingdom, (2)Psychology, University of Bath, Bath, United Kingdom
- 16:00 140 144.140 Clinical, Cognitive and Adaptive Profiles in Children and Adolescents with High-Functioning Autism Spectrum Disorders and in Their Siblings: A Comparative Study. M. Rosa¹, O. Puig Navarro^{1,2}, V. Valles¹, S. Lera Miguel¹, V. Sanchez^{1,2} and R. Calvo Escalona^{1,2}, (1)Child and Adolescent Psychiatry and Psychology Department, Hospital Clinic of Barcelona, Barcelona, Spain, (2)CIBERSAM, Barcelona, Spain
- 14:00 141 144.141 Cognitive Non-Verbal Profile in Autism Spectrum Disorders. B. A. Silva Dias¹, Autims, PIN - Progresso Infantil, S. Domingos de Rana, Portugal
- 15:00 142 144.142 Environmental Influences and Neurocognitive Profile in Autism Spectrum Disorders: A Discordant Monozygotic Twin Pairs Design. C. Willfors¹, S. Berggren¹, P. Lichtenstein², H. Anckarsäter³ and S. Bölte¹, (1)Department of Women's and Children's Health, Astrid Lindgren Children's Hospital, Q2:07, Center of Neurodevelopmental Disorders (KIND), Karolinska Institutet, Stockholm, Sweden, (2)Department of Medical Epidemiology and Biostatistics, Karolinska Institutet, Stockholm, Sweden, (3)Department of Forensic Psychiatry, Institute of Neuroscience and Physiology, Sahlgren's Academy, University of Gothenburg, Gothenburg, Sweden

- 16:00 143 144.143 Evaluating Executive Functions As Endophenotypes of Autism Spectrum Disorders. L. Van Eylen^{1,2}, J. Steyaert^{1,3}, E. Ceulemans⁴, J. Wagemans^{1,5} and I. Noens^{1,2}, (1)Leuven Autism Research (LAuRes), University of Leuven (KU Leuven), Leuven, Belgium, (2)Parenting and Special Education Research Unit, University of Leuven (KU Leuven), Leuven, Belgium, (3)Child Psychiatry, University of Leuven (KU Leuven), Leuven, Belgium, (4)Methodology of Educational Sciences Research Group, University of Leuven (KU Leuven), Leuven, Belgium, (5)Laboratory of Experimental Psychology, University of Leuven (KU Leuven), Leuven, Belgium
- 14:00 144 144.144 Executive Functioning and Behavior Problems in Intellectual Disability and Autism Spectrum Disorders. E. M. Visser¹, H. Berger¹, J. Prins¹, H. Schroyen Lantman-de Valk² and J. P. Teunisse^{1,3,4}, (1)Medical Psychology, Radboud University Nijmegen Medical Centre, Nijmegen, Netherlands, (2)Primary and Community Care, Radboud University Nijmegen Medical Centre, Nijmegen, Netherlands, (3)Hogeschool van Arnhem en Nijmegen, Nijmegen, Netherlands, (4)Research and Development, Dr Leo Kannerhuis, Doorwerth, Netherlands
- 15:00 145 144.145 Exploring the Cognitive Underpinnings of the Autism Phenotype. V. E. Brunson¹, E. Colvert¹, E. L. Woodhouse¹, P. F. Bolton² and F. Happé³, (1)SGDP, Institute of Psychiatry, King's College London, London, United Kingdom, (2)Institute of Psychiatry, King's College London, London, United Kingdom, (3)SGDP, IoP, King's College London, London, United Kingdom
- 16:00 146 144.146 Flexible Relational Processing and Visual Paired Comparison in Autism Spectrum Disorder. C. L. Thomas¹, S. B. Gaigg, M. Ring and D. M. Bowler, Autism Research Group, City University London, London, United Kingdom
- 14:00 147 144.147 Gender-Specific Differences in Autism Spectrum Cognitive Profiles: Wechsler Intelligence Scales Versus Raven's Progressive Matrices. E. Marcil^{1,2}, V. A. Bao^{1,2}, L. Mottron³, V. M. Doobay^{1,2} and A. Bertone^{1,2,3}, (1)Perceptual Neuroscience Laboratory for Autism and Development (PNLab), Montreal, QC, Canada, (2)School / Applied Child Psychology, Department of Educational and Counselling Psychology, McGill University, Montreal, QC, Canada, (3)Service de Recherche, Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada
- 15:00 148 144.148 Individual Differences in Homograph Reading Amongst Hebrew-Speaking Autistic Children. J. Brock¹, N. Sukenik² and N. Friedmann^{2,3}, (1)Centre for Cognition and its Disorders, Macquarie University, Sydney, Australia, (2)Language and Brain Lab, Tel Aviv University, Tel Aviv, Israel, (3)ARC Centre of Excellence in Cognition and its Disorders, Macquarie University, NSW, Australia
- 16:00 149 144.149 Inhibition of Eye Blinking Reveals Subjective Perceptions of Stimulus Salience in Children with Autism Spectrum Disorder. S. Shultz^{1,2}, A. Klin² and W. Jones², (1)Yale University, New Haven, CT, (2)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA
- 14:00 150 144.150 Intentional Control and Behavioural Rigidity in Individuals with Autism. E. Poljac¹, Montessorilaan 3, Radboud University Nijmegen, Nijmegen, GE, Netherlands
- 15:00 151 144.151 Investigating and Training Gaze Control Using Eye-Tracking and Virtual Humans. J. Nadel¹, J. C. Martin² and O. Grynspan³, (1)Centre Emotion USR3246, La Salpêtrière Hospital, French Centre of Scientific Research, Paris, France, (2)LIMSI, CNRS / Université Paris-Sud, Orsay, France, (3)Centre Emotion USR 3246 La Salpêtrière Hospital, Université Pierre & Marie Curie / CNRS, Paris, France
- 16:00 152 144.152 Local and Global Processing and the Effect of Context On Social and Non-Social Processing in High Functioning Adolescents with ASD. D. Ben-Yosef¹, D. Anaki^{1,2} and O. Golan¹, (1)Department of Psychology, Bar-Ilan University, Ramat-Gan, Israel, (2)Gonda Multidisciplinary Brain Center, Bar-Ilan University, Ramat-Gan, Israel
- 14:00 153 144.153 Model-Based Learning and Enhanced Systemising Ability in High Functioning Autism and Asperger Syndrome. D. J. Fowler¹, Brighton & Sussex Medical School, University of Sussex, Falmer, United Kingdom
- 15:00 154 144.154 No Evidence for Reduced Global and / or Enhanced Local Visual Processing in Adolescents with ASD: Evidence From Embedded Figures and Configural Superiority Tests. C. Dillen^{1,2,3}, B. Boets^{3,4}, H. P. Op de Beeck¹ and J. Steyaert^{3,4,5}, (1)Biological Psychology, University of Leuven, Leuven, Belgium, (2)Child Psychiatry, Department of Neurosciences, University of Leuven (KU Leuven), Leuven, Belgium, (3)Leuven Autism Research (LAuRes), University of Leuven (KU Leuven), Leuven, Belgium, (4)Child Psychiatry, University of Leuven (KU Leuven), Leuven, Belgium, (5)Clinical Genetics, Maastricht University Hospital, Maastricht, Netherlands
- 16:00 155 144.155 Object-Location Memory in Autism Spectrum Disorder. M. Ring¹, D. M. Bowler and S. B. Gaigg, Autism Research Group, City University London, London, United Kingdom
- 14:00 156 144.156 Relations Among Speed of Attention Shifting, Background Noise, and Symptom Severity in Children with Autism Spectrum Disorders. L. E. Bahrick and J. T. Todd¹, Florida International University, Miami, FL
- 15:00 157 144.157 Response Shifting and Inhibition in Preschoolers with Autism Spectrum Disorder. J. Mussey¹ and L. G. Klinger², (1)University of Alabama, Tuscaloosa, AL, (2)TEACCH Autism Program, Department of Psychiatry, University of North Carolina, Chapel Hill, NC
- 16:00 158 144.158 Semantic Memory Structure in Children and Adolescents with Autism Spectrum Disorder. K. M. Rancourt¹, J. H. Filliter¹, P. A. McMullen¹ and S. A. Johnson², (1)Psychology and Neuroscience, Dalhousie University, Halifax, NS, Canada, (2)IWK Health Centre, Halifax, NS, Canada
- 14:00 159 144.159 The Factor Structure of the Behavior Rating Inventory of Executive Function in Children and Adolescents with Autism Spectrum Disorders Replicates the Normative Sample. Y. Granader¹, B. E. Yerys², G. L. Wallace³, R. Lawson^{1,4}, M. Rosenthal⁵, M. Wills¹, E. Dixon⁶, L. G. Anthony¹, J. Pandey², R. Thompson², R. T. Schultz⁷ and L. Kenworthy⁸, (1)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (2)Children's Hospital of Philadelphia, Philadelphia, PA, (3)National Institute of Mental Health, Bethesda, MD, (4)Loyola University Maryland, Baltimore, MD, (5)Child Mind Institute, New York, NY, (6)National Institute of Mental Health, National Institutes of Health, Bethesda, MD, (7)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (8)Children's National Medical Center, Rockville, MD
- 15:00 160 144.160 The Influence of Emotional Valence on Prospective Memory Performance in Children with High-Functioning Autism Spectrum Disorders. A. Kretschmer¹ and M. Altgassen^{1,2}, (1)Department of Psychology, Technische Universität Dresden, Dresden, Germany, (2)Donders Institute for Brain, Cognition and Behaviour, Radboud University Nijmegen, Nijmegen, Netherlands

- 16:00 161 144.161 Transitive Inference Learning in Children and Adolescents with ASD. J. S. Beck¹, P. C. Mundy², W. Jarrold³, K. Kim⁴, M. Gwaltney⁵, N. McIntyre⁶, S. Novotny⁷, L. Swain⁷, T. Oswald⁸ and M. Solomon⁹, (1)UC Davis M.I.N.D. Institute, Sacramento, CA, (2)University of California at Davis, Sacramento, CA, (3)UC Davis, Davis, CA, (4)M.I.N.D. Institute, UC Davis, Davis, CA, (5)University of California Davis, Learning & Mind Sciences, Sacramento, CA, (6)U.C. Davis, Davis, CA, (7)University of California, Davis, Davis, CA, (8)Department of Psychiatry and Behavioral Sciences, University of California, Davis, Sacramento, CA, (9)Psychiatry, University of California, Davis M.I.N.D. Institute, Sacramento, CA
- 14:00 162 144.162 Understanding Time Estimation in Autism Spectrum Disorders. J. A. Burack¹, C. Gordon Green², H. Flores³, J. L. Ringo⁴ and D. Brodeur⁵, (1)Educational & Counselling Psychology, McGill University, Montreal, QC, Canada, (2)Education and Counselling Psychology, McGill University, Montreal, QC, Canada, (3)McGill University, Montreal, QC, Canada, (4)McGill University, Montreal, QC, Canada, (5)Acadia University, Wolfville, NS, Canada
- 15:00 163 144.163 Visual Memory Profile in Children with Autism: The Role of Cognitive Flexibility. S. Semino¹, M. Zanobini and S. Solari, Department of Educational Science (DISFOR), University of Genoa, Genoa, Italy
- 16:00 ▶ 164 144.164 Visual Search and Attention in Children with Autism Spectrum Disorders — An Eye-Tracking Study. C. Wang¹, Z. Wang², S. Gao², S. Jin², Q. Li² and H. Zheng², (1)Center for Behavioural Science, School of Medicine, Nankai University, Tianjin, China, (2)Department of Social Psychology, Nankai University, Tianjin, China
- 14:00 165 144.165 Working Memory and Visuo-Spatial Cognitions in Toddlers with Autism and Williams Syndrome. G. A. Perminova¹, J. A. Burdukova and T. A. Stroganova, Moscow State University of Psychology and Education (MSUPE), Moscow, Russia
- 15:00 166 144.166 Executive Functioning of Children with ASD: An Analysis of the Brief-Questionnaire. M. L. Bezemer¹ and E. M. Blijd-Hoogewys, Autism Team North-Netherlands, Lentis, Groningen, Netherlands
- 16:00 167 144.167 Seeing and Saying in Different Language Phenotypes. C. Norbury¹, Royal Holloway, University of London, Egham, United Kingdom
- 14:00 168 144.168 Adolescents with Autism Spectrum Disorder Do Not Jump to Conclusions. M. Brosnan¹, E. Chapman¹ and C. Ashwin², (1)University of Bath, Bath, United Kingdom, (2)Psychology, University of Bath, Bath, United Kingdom
- 15:00 169 144.169 Lack of Embodied Effects on Stimulus Encoding in High-Functioning Autism. I. M. Eigsti¹, G. Col-Cozzari², D. Rosset³, D. Da Fonseca³ and C. Deruelle⁴, (1)University of Connecticut, Storrs, CT, (2)University of Provence, Aix-en-Provence, France, (3)INCM, CNRS; Autism Resource Center, Marseille, France, (4)INCM, CNRS, Marseille, France
- 16:00 170 144.170 Cognitive Alterations in Autism Spectrum Disorders (ASD). C. Cantio¹, S. J. White², J. R. M. Jepsen³, G. F. Madsen¹ and N. Bilenberg¹, (1)Child and Adolescent Psychiatry, University of Southern Denmark, Odense C, Denmark, (2)Institute of Cognitive Neuroscience, University College London, London, United Kingdom, (3)Center for Neuropsychiatric Schizophrenia Research, Glostrup, Denmark
- 14:00 171 144.171 Endogenous Spatial Attention: Evidence for Intact Functioning in Adults with Autism. M. A. Grubb¹, M. Behrmann², R. Egan², N. J. Minshew³, M. Carrasco⁴ and D. J. Heeger⁴, (1)Psychology, New York University, New York, NY, (2)Psychology, Carnegie Mellon University, Pittsburgh, PA, (3)University of Pittsburgh, Pittsburgh, PA, (4)Psychology and Neural Science, New York University, New York, NY
- 15:00 172 144.172 Increased Capacity for Time Perception in Autism Spectrum Disorder. A. Remington¹ and N. Lavie², (1)Experimental Psychology, University of Oxford, Oxford, United Kingdom, (2)Institute of Cognitive Neuroscience, UCL, London, United Kingdom
- 16:00 ▶ 173 144.173 Analogical Reasoning in Children with Autism Spectrum Disorder: An Eye-Tracking Study. L. Yi¹, Z. Chen², E. Tan³, Y. Fan⁴ and T. Nishida², (1)Department of Psychology, Sun Yat-sen University, Guangzhou, China, (2)University of California, Davis, Davis, CA, (3)Sun Yat-sen University, Guangzhou, China, (4)Guangzhou Rehabilitation & Research Center for Children with ASD, Guangzhou, China
- 14:00 174 144.174 The Role of Declarative Memory Process for Children with Low Functioning Autism When Using Personalised Speech Generated Devices. S. J. ni Chuileann¹, Psychology, Trinity College Dublin, Co. Carlow, Ireland
- 15:00 175 144.175 Working Memory and Inhibition in ASD. M. de Vries¹ and H. M. Geurts², (1)University of Amsterdam, Amsterdam, Netherlands, (2)Department of Psychology, Brain and Cognition, University of Amsterdam, Amsterdam, NH, Netherlands
- 16:00 176 144.176 Source Memory Difficulties Under Varying Task Demands in ASD. D. M. Bowler¹, S. Semino² and S. B. Gaigg¹, (1)Autism Research Group, City University London, London, United Kingdom, (2)Department of Educational Science (DISFOR), University of Genoa, Genoa, Italy
- 14:00 177 144.177 Attention and Executive Function As Predictors of Functional Impairments in Adolescents with Autism Spectrum Disorder. L. Hall¹, E. A. Kelley, D. Wilson, R. Furlano, E. Ladwig and J. Rajasic, Queen's University, Kingston, ON, Canada

Educational Symposium
145 - ASD and ADHD: Familially Related?
 16:30 - 18:30 - Auditorium

Session Chair: H. M. Geurts; University of Amsterdam

Autism Spectrum Disorders (ASD) and Attention-Deficit / Hyperactivity Disorder (ADHD) are both highly heritable neuropsychiatric disorders. Together they account for over fifty percent of the yearly new referrals in child and adolescent psychiatry. There is substantial comorbidity between both disorders, which has received little research attention due to a comorbid diagnosis restriction in the DSM-IV. With the removal of this restriction in the upcoming DSM-5, it is vital to gain more insight in the causes and consequences of a comorbid diagnosis. In this symposium, a series of inventive studies will be presented illustrating to what degree ASD and ADHD (non-)overlap regarding diagnostic information and cognitive profiles, to what extent the low end of the ASD / ADHD spectrum indeed represent superior functioning, if simplex and multiplex families show differential patterns of cognitive problems and to what degree parental ASD / ADHD symptoms influence the family environment in families with ASD / ADHD affected offspring. Strong emphasis will be given on the clinical implications of these findings.

- 16:30 145.001 Are Autism Spectrum Disorders and Attention-Deficit / Hyperactivity Disorder Different Manifestations of One Overarching Disorder? Cognitive and Symptom Evidence From a Clinical and Population Based Sample. J. M. J. Van der Meer^{1,2}, A. M. Oerlemans^{2,3}, D. J. van Steijn², M. G. A. Lappenschaar⁴, L. M. J. de Sonneville⁵, J. K. Buitelaar^{2,6} and N. N. J. Rommelse^{2,3}, (1)Department of Cognitive Neuroscience, Radboud University Medical Centre Nijmegen, Donders Institute for Brain, Cognition and Behavior, Nijmegen, Netherlands, (2)Karakter Child and Adolescent Psychiatry University Centre Nijmegen, Nijmegen, Netherlands, (3)Department of Psychiatry, Radboud University Medical Centre, Donders Institute for Brain, Cognition and Behavior, Nijmegen, Netherlands, (4)Institute for Computing and Information Science, Radboud University, Nijmegen, Netherlands, (5)Leiden Institute for

- Brain and Cognition, Leiden University, Leiden, Netherlands, (6)Department of Cognitive Neuroscience, Radboud University Nijmegen Medical Centre, Donders Institute for Brain, Cognition and Behavior, Nijmegen, Netherlands
- 17:00 145.002 Theory of Mind in Children with ASD and Children with ADHD. S. J. M. Kuijper^{1,2}, P. Hendriks², H. M. Geurts³, W. P. M. Van den Wildenberg⁴, B. Hollebrandse² and C. A. Hartman¹, (1)University of Groningen, University Medical Center Groningen, Groningen, Netherlands, (2)University of Groningen, Center for Language and Cognition Groningen (CLCG), Groningen, Netherlands, (3)Department of Psychology, Brain and Cognition, University of Amsterdam, Amsterdam, NH, Netherlands, (4)University of Amsterdam, Amsterdam Center for the Study of Adaptive Control in Brain and Behaviour (Acacia), Amsterdam, Netherlands
- 17:30 145.003 Evidence for Cognitive Endophenotypes in Multiplex, but Not Simplex ASD and ADHD Families? A Focus On Unaffected Siblings. A. M. Oerlemans^{1,2}, Y. G. E. De Bruijn², D. J. van Steijn², B. Franke^{1,3}, J. K. Buitelaar^{2,4} and N. N. J. Rommelse^{1,2}, (1)Department of Psychiatry, Radboud University Medical Centre, Donders Institute for Brain, Cognition and Behavior, Nijmegen, Netherlands, (2)Karakter Child and Adolescent Psychiatry University Centre Nijmegen, Nijmegen, Netherlands, (3)Department of Human genetics, Radboud University Medical Centre, Nijmegen, Netherlands, (4)Department of Cognitive Neuroscience, Radboud University Nijmegen Medical Centre, Donders Institute for Brain, Cognition and Behavior, Nijmegen, Netherlands
- 18:00 145.004 Are Autism Spectrum Disorders and / or Attention-Deficit / Hyperactivity Disorder Symptoms Related to Parenting Styles in Families with ASD (+ADHD) Affected Children? D. J. van Steijn¹, A. M. Oerlemans^{1,2}, S. W. de Ruiter², M. A. van Aken³, J. K. Buitelaar^{1,4} and N. N. J. Rommelse^{1,2}, (1)Karakter Child and Adolescent Psychiatry University Centre Nijmegen, Nijmegen, Netherlands, (2)Department of Psychiatry, Radboud University Medical Centre, Donders Institute for Brain, Cognition and Behavior, Nijmegen, Netherlands, (3)Department of Developmental Psychology, University Utrecht, Utrecht, Netherlands, (4)Department of Cognitive Neuroscience, Radboud University Nijmegen Medical Centre, Donders Institute for Brain, Cognition and Behavior, Nijmegen, Netherlands

- 16:30 146.001 Typical Orienting But Impaired Processing of Social Information in Infants at Risk for ASD. T. Gliga¹, M. Elsabbagh², R. Bedford³, T. Charman⁴, M. H. Johnson¹ and The BASIS Team⁵, (1)Centre for Brain & Cognitive Development, Birkbeck, University of London, London, United Kingdom, (2)Department of Psychiatry, McGill University, Montreal, QC, Canada, (3)Institute of Psychiatry, London, United Kingdom, (4)Centre for Research in Autism & Education, Institute of Education, London, United Kingdom, (5)BASIS, London, United Kingdom
- 16:45 146.002 Mirror Neuron Functioning in Young Children with or at Risk for ASD. P. Warreyn¹, L. Ruyschaert, J. R. Wiersema and H. Roeyers, Ghent University, Ghent, Belgium
- 17:00 146.003 Altered Modulation by Communicative Signals on Cognitive Performance in Children with Autism. T. Falck-Ytter^{1,2}, C. Carlström² and M. Johansson², (1)Center of Neurodevelopmental Disorders at Karolinska Institutet (KIND), Stockholm, Sweden, (2)Dep. Psychology, Uppsala University, Uppsala, Sweden
- 17:15 146.004 Psychophysiological Responses to Direct Gaze in Children with Autism Spectrum Disorder. A. Kylliäinen¹, S. B. Wallace², A. J. Bailey³ and J. K. Hietanen⁴, (1)University of Tampere, Tampere, Finland, (2)Science, Autistica, London, United Kingdom, (3)Psychiatry, UBC, Vancouver, BC, Canada, (4)School of Social Sciences and Humanities / Psychology, University of Tampere, Tampere, Finland

Scientific Panels
146 - Novel Methods and Paradigms for Studying Early Autism: A European Perspective
 16:30 - 17:30 - Meeting Room 1-2

Session Chair: H. Roeyers; Ghent University

Enhancing the Scientific Study of Early Autism (ESSEA) is a network of scientists from 22 countries, funded by the European Cooperation in Science and Technology (EU-COST). One important goal of this network is to develop and advance novel methods for studying autism in young children and infants. It is essential for the scientific study of early autism that expertise in advanced methods for studying perception, cognition, and brain function is shared and broadened, that particular protocols are being developed that can be run at multiple sites and that data can be pooled. Technologies being used in the participating labs include electroencephalography (EEG), (live) eye-tracking, skin conductance responses and heart rate monitoring. This scientific panel will report on paradigm developments in Europe and will demonstrate their added value by providing new and compelling empirical findings in children with autism and in high-risk siblings. Implications for early autism research will be discussed.

Scientific Panels
147 - From Genes to Behavior: Translational Approaches Towards a Mechanistic Understanding of Insistence on Sameness (IS) in Autism Spectrum Disorders (ASD)
 16:30 - 17:30 - Meeting Room 3

Session Chair: M. W. Mosconi; University of Texas Southwestern Medical Center

The insistence on sameness (IS) commonly exhibited by individuals with autism spectrum disorder (ASD) represents a disabling feature that is only minimally affected by current treatments. Its underlying biology is not well understood, but multiple lines of evidence implicate serotonergic (5HT) alterations and frontostriatal dysfunctions. Still, efforts to develop improved and more individualized therapeutic approaches for IS have been constrained by a lack of knowledge about mechanisms bridging genetic alterations to neural system and behavioral aspects. The proposed talks aim to A) characterize the molecular, biochemical, neural system and cognitive bases of IS, and B) integrate knowledge across these levels of analysis to propose directions for future research on the etiology and treatment of these behaviors. This panel will examine 1) gene networks related to IS, 2) rare genetic variants associated with hyperserotonemia (i.e., elevated levels of platelet 5HT) and repetitive behaviors, 3) rodent behavioral pharmacology studies that utilize in vivo brain measurements of 5HT, and 4) clinical studies of neurocognitive and brain system abnormalities associated with IS. We will also discuss some of the challenges inherent in integrating these types of translational efforts and in generating biomarkers and outcome measures for clinical intervention research.

- 16:30 147.001 Neurocognitive Deficits Underlying Insistence on Sameness in Autism Spectrum Disorders (ASD). M. W. Mosconi¹, M. E. Ragazzino², L. M. Schmitt¹, E. H. Cook³ and J. A. Sweeney¹, (1)University of Texas Southwestern Medical Center, Dallas, TX, (2)University of Illinois at Chicago, Chicago, IL, (3)Psychiatry, University of Illinois at Chicago, Chicago, IL

- 16:45 147.002 The BTBR Mouse as a Translational Model to Understand the Mechanisms Underlying Repetitive Behaviors in Autism. M. E. Ragozzino¹, University of Illinois at Chicago, Chicago, IL
- 17:00 147.003 Sameness or Difference: Studies in a Genetic Mouse Model of Autism with Hyperserotonemia. C. L. Muller¹, T. M. Kerr, R. D. Blakely and J. Veenstra-Vander Weele, Vanderbilt University, Nashville, TN
- 17:15 147.004 Hyperserotonemia: Deciphering Genetic Risk Using the Oldest Biomarker in Autism. J. S. Sutcliffe¹, L. K. Davis², E. L. Crawford³, E. Kistner-Griffin⁴, N. G. Campbell⁵, H. C. Prasad⁶, S. J. Guter⁶, B. Li⁷, R. D. Blakely⁸, N. J. Cox² and E. H. Cook⁹, (1)Vanderbilt Brain Institute, Vanderbilt University, Nashville, TN, (2)Genetic Medicine, University of Chicago, Chicago, IL, (3)Molecular Physiology & Biophysics and Vanderbilt Brain Institute, Vanderbilt University, Nashville, TN, (4)Biostatistics and Epidemiology, Medical University of South Carolina, Charleston, SC, (5)Pharmacology, Vanderbilt University, Nashville, TN, (6)University of Illinois at Chicago, Chicago, IL, (7)Molecular Physiology & Biophysics, Vanderbilt University, Nashville, TN, (8)Vanderbilt University, Nashville, TN, (9)Psychiatry, University of Illinois at Chicago, Chicago, IL

Scientific Panels
148 - 30-Year Follow-Up of Autism in Adulthood
 16:30 - 17:30 - Chamber Hall

Session Chair: M. Farley; University of Utah

The population of adults with ASD is increasing rapidly, entering systems of healthcare and adult support that are already at capacity. Understanding the nature of ASD in adults, their unique needs, and availability of service options, is essential for resource planning and service development. Investigations into this period of life are increasing, but much remains unknown. This study examines adult outcomes for a large, population-based sample of adults identified as children in the 1980's. Outcomes of interest concern diagnostic presentation, functional abilities, co-occurring medical and psychiatric conditions, social functioning, independence, service use, and access to services. Overall, outcomes for this sample were consistent with what has been reported for similar samples, yet there were notable differences in factors contributing to outcomes compared to what has been reported for other groups. Our findings support the importance of a range of accessible healthcare and support service options for adults with ASD. Detailed analyses are underway to investigate patterns leading to specific outcomes for subgroups of the population of adults with ASD.

- 16:30 148.001 Social Functioning of Adults with ASD: Results From a 30-Year Follow-Up. M. Farley¹, W. M. McMahon², H. Coon¹, J. Viskochil³, S. Harward¹, E. Haygeman¹, A. V. Bakian¹ and D. Bilder¹, (1)University of Utah, Salt Lake City, UT, (2)Psychiatry, University of Utah, Salt Lake City, UT, (3)Utah Autism Research Program, Salt Lake City, UT
- 16:45 148.002 Comorbid Medical Conditions in a Population-Based Sample of Adults with ASD. W. M. McMahon¹, A. V. Bakian², J. Viskochil³, H. Coon², M. Farley², E. L. Botts¹ and D. Bilder¹, (1)Psychiatry, University of Utah, Salt Lake City, UT, (2)University of Utah, Salt Lake City, UT, (3)Utah Autism Research Program, Salt Lake City, UT, (4)Department of Psychiatry, Vanderbilt University, Nashville, TN
- 17:00 148.003 Psychiatric Comorbidity Among Adults with Autism Spectrum Disorder. D. Bilder¹, J. Viskochil², T. Buck¹, H. Coon¹, W. M. McMahon³ and M. Farley¹, (1)University of Utah, Salt Lake City, UT, (2)Utah Autism Research Program, Salt Lake City, UT, (3)Psychiatry, University of Utah, Salt Lake City, UT

- 17:15 148.004 Effect of Urbanicity on Adult Outcomes in Autism Spectrum Disorders. J. Viskochil¹, M. Farley², D. Bilder², W. M. McMahon³, S. Harward², E. Haygeman² and A. V. Bakian², (1)Utah Autism Research Program, Salt Lake City, UT, (2)University of Utah, Salt Lake City, UT, (3)Psychiatry, University of Utah, Salt Lake City, UT

Scientific Panels
149 - The Insula and Anterior Cingulate Cortex: Saliency, Interoception, and Autism Symptoms
 17:30 - 18:30 - Meeting Room 3

Session Chair: C. Cascio; Vanderbilt University School of Medicine

Autism spectrum disorders (ASD) are defined by impairments in reciprocal social interaction, communication, and the presence of repetitive patterns of behavior. These symptoms are defined by a tendency to disengage from external sensory stimuli, with the exception of idiosyncratic stimuli (e.g. sensory interests, circumscribed interests) that may be engaged intensely and / or repetitively. This pattern suggests a possible alteration in the balance between the reward value of internal relative to external sensory inputs in ASD. The insula is known for its role in monitoring internal state, a sensory process known as interoception, and evaluating internal signals for affective significance using inputs from limbic structures. The insula and the anterior cingulate cortex constitute the saliency network, which uses this information about affective significance to facilitate switching attention from internal (default mode) to external loci. The role of the insula and anterior cingulate in ASD has only recently begun to be explored. This series of presentations provides evidence from neuroimaging and behavioral approaches for differences in the saliency network, including enhanced interoception, as well as altered structure and function of the saliency network, in ASD and in association with autistic traits in the general population.

- 17:30 149.001 Atypical Morphometry in the Cingulate and Insula and Its Relation to Impaired Social Cognition in Children and Adults with Autism Spectrum Disorder. E. G. Duerden¹, K. A. R. Doyle-Thomas², J. P. Lerch³, M. J. Taylor⁴ and E. Anagnostou⁴, (1)The Hospital for Sick Children, Toronto, ON, Canada, (2)Holland Bloorview Kids Rehabilitation Hospital, Toronto, ON, Canada, (3)Mouse Imaging Centre, The Hospital for Sick Children, Toronto, ON, Canada, (4)University of Toronto, Toronto, ON, Canada
- 17:45 149.002 Revealing Insula Functional Circuit(s) and Their Role in Autism with Resting State fMRI. A. DiMartino¹, C. Kelly², F. X. Castellanos² and M. P. Milham³, (1)NYU Child Study Center, New York, NY, (2)Institute for Pediatric Neuroscience, NY, NY, (3)Child Mind Institute, Center for Developing Brain at Child Mind Institute, New York, NY
- 18:00 149.003 Superior Interoception in Children with Autism Spectrum Disorders. C. Cascio¹, W. A. Loring² and K. Schauder¹, (1)Vanderbilt University School of Medicine, Nashville, TN, (2)Vanderbilt University, Nashville, TN
- 18:15 149.004 Saliency Network Based Classification and Prediction of Symptom Severity in Children with Autism. L. Uddin¹, K. Supekar¹, C. Lynch², A. Khouzam², J. M. Phillips³, C. Feinstein², S. Ryali² and V. Menon¹, (1)Stanford University, Stanford, CA, (2)Stanford University, Palo Alto, CA, (3)Psychiatry & Behavioral Sciences, Stanford University, Stanford, CA

Scientific Panels

150 - Genomic and Systems Biological Approaches to Understanding Autism Spectrum Disorder

17:30 - 18:30 - Meeting Room 1-2

Session Chair: M. W. State; Yale University School of Medicine

Recent gene discovery efforts focusing on de novo variation have rapidly expanded the number of genes and loci reliably associated with ASD. However, locus heterogeneity and biological pleiotropy have complicated the effort to clarify the neurobiology of ASD. Still, multiple lines of evidence suggest that the large number of risk genes will converge on a smaller number of pathophysiological mechanisms. Importantly, emerging maps of gene expression in the developing brain and the ability to generate similar datasets for gene regulatory interactions provide a powerful and novel means to identify points of mechanistic convergence for novel ASD genes within a developmentally-relevant framework. The proposed panel will describe an ongoing multi-disciplinary collaboration aimed at clarifying molecular and circuit level pathology in ASD. Included are presentations on: 1) New data from ongoing whole-exome sequencing studies of the Simons Simplex Collection; 2) expression analyses of ASD loci in the developing brain; 3) ChIP-seq studies of ASD genes involved in epigenetic regulation; and 4) a paradigm for integrating these data to clarify ASD pathology. This collaborative approach offers a path forward from unbiased gene discovery to the illumination of convergent molecular mechanisms underlying ASD.

- 17:30 150.001 ASD Gene Discovery with Whole-Exome Sequencing. S. J. Sanders¹, A. J. Willsey¹, S. Dong¹, B. Devlin², K. Roeder³, N. Sestan⁴, J. P. Noonan¹ and M. W. State¹, (1)Genetics, Yale University School of Medicine, New Haven, CT, (2)Psychiatry, University of Pittsburgh, Pittsburgh, PA, (3)Statistics, Carnegie Mellon University, Pittsburgh, PA, (4)Neurobiology, Yale University School of Medicine, New Haven, CT
- 17:45 150.002 Identifying Targets of ASD-Associated Chromatin Regulators in the Developing Human Brain. R. A. Muhle¹, S. Reilly², W. Niu¹, S. J. Sanders², K. Roeder³, B. Devlin⁴, M. W. State², N. Sestan⁵ and J. P. Noonan², (1)Child Study Center, Yale University School of Medicine, New Haven, CT, (2)Genetics, Yale University School of Medicine, New Haven, CT, (3)Statistics, Carnegie Mellon University, Pittsburgh, PA, (4)Psychiatry, University of Pittsburgh, Pittsburgh, PA, (5)Neurobiology, Yale University School of Medicine, New Haven, CT
- 18:00 150.003 Developmental and Functional Analyses of Neural Circuits Affected in Autism Spectrum Disorders. M. Li¹, A. J. Willsey², S. J. Sanders², K. Kwan¹, C. Bichsel¹, A. Tebbenkamp¹, K. Roeder³, B. Devlin⁴, J. P. Noonan², M. W. State² and N. Sestan¹, (1)Neurobiology, Yale University School of Medicine, New Haven, CT, (2)Genetics, Yale University School of Medicine, New Haven, CT, (3)Statistics, Carnegie Mellon University, Pittsburgh, PA, (4)Psychiatry, University of Pittsburgh, Pittsburgh, PA
- 18:15 150.004 Finding Convergent Biology with Expression Analysis of ASD Risk Genes. A. J. Willsey¹, M. Li², S. J. Sanders¹, J. Gockley¹, Z. Lin³, Y. Zhu², B. Devlin⁴, K. Roeder⁵, J. P. Noonan¹, N. Sestan² and M. W. State¹, (1)Genetics, Yale University School of Medicine, New Haven, CT, (2)Neurobiology, Yale University School of Medicine, New Haven, CT, (3)Computational Biology, Yale University School of Medicine, New Haven, CT, (4)Psychiatry, University of Pittsburgh, Pittsburgh, PA, (5)Statistics, Carnegie Mellon University, Pittsburgh, PA

Scientific Panels

151 - Beyond the RCT: Extending Delivery of the Early Start Denver Model in the Real World to Foster Best Practice

17:30 - 18:30 - Chamber Hall

Session Chair: C. Dissanayake; La Trobe University

The Early Start Denver Model (ESDM: Rogers & Dawson, 2010) is a manualized, developmentally oriented play-based intervention incorporating principles of Applied Behaviour Analysis, Pivotal Response Training and relationship-based methods. Designed for infants, toddlers and preschoolers with ASD, the crucial components include use of an interdisciplinary team to address a range of challenges including a focus on the child's affect, attention and arousal in the teaching procedures. The efficacy of the ESDM has been documented in a randomized clinic-controlled study (Dawson, Rogers, et al., 2010), in which participants aged between 18- to 30-months received an average of 15 hours a week of 1:1 ESDM intervention by trained therapists. Significant improvements were found in the ESDM group compared to the 'treatment-as-usual' community group, across a variety of developmental domains at the two-year follow-up. The suite of papers in this symposium, from across the world, present findings from the next steps in development of the ESDM: extension of the ESDM to group-based delivery in a community-based setting (1) and the development of experimental measures to predict treatment outcomes in group-based delivery (2; Australia), examination of social reward on learning (3; USA) and translation of the ESDM into an Italian context (4; Italy).

- 17:30 151.001 Group Delivery of the Early Start Denver Model: Treatment Outcomes. C. Dissanayake¹, C. D. Zierhut² and G. Vivanti³, (1)Olga Tennison Autism Research Centre, School of Psychological Science, La Trobe University, Bundoora, Australia, (2)UC Davis M.I.N.D. Institute, Sacramento, CA, (3)La Trobe University, Northcote, Australia
- 17:45 151.002 Social and Non-Social Abilities Are Differentially Associated to Treatment Gains in Different Domains. G. Vivanti¹, C. D. Zierhut² and C. Dissanayake³, (1)La Trobe University, Northcote, Australia, (2)UC Davis M.I.N.D. Institute, Sacramento, CA, (3)Olga Tennison Autism Research Centre, School of Psychological Science, La Trobe University, Bundoora, Australia
- 18:00 151.003 Assessing the Effect of Reward On Learning: A Novel Eye-Tracking Marker of Treatment Outcome. C. McCormick¹, G. S. Young¹ and S. J. Rogers², (1)UC Davis M.I.N.D. Institute, Sacramento, CA, (2)Psychiatry and Behavioral Sciences, M.I.N.D. Institute; University of California at Davis, Sacramento, CA
- 18:15 151.004 The Early Start Denver Model in Italy. C. Colombi¹, F. Muratori², G. Pioggia³, A. Narzisi², L. Ruta⁴, R. Siracusano⁵ and G. Tortorella⁵, (1)National Research Council of Italy, Pisa, Italy, (2)University of Pisa – Stella Maris Scientific Institute, Pisa, Italy, (3)Institute of Clinical Physiology, National Research Council (CNR), Pisa, Italy, (4)University of Cambridge, Cambridge, England, United Kingdom, (5)Universita' di Messina, Messina, Italy

SATURDAY May 4, 2013 - AM

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8:00-15:00	Registration				
7:30-9:00	SIG – Meeting Room 8 & 9	SIG – Meeting Room 1 & 2	SIG – Meeting Room 3	SIG – Meeting Room 4 & 5	
9:00-14:00	Exhibits – Foyer 1 outside of the Auditorium				
9:00-9:15	Introduction – Auditorium				
9:15-10:00	Keynote Address: Maureen Durkin - The Epidemiology of Autism Spectrum Disorder: Toward a More Inclusive World - Auditorium			9:00-13:00	
10:00-10:30	Break – Exhibit Area/Poster Area			Poster Sessions – Banquet Hall Cognition and Behavior Epigenetics and Gene-Environment Interaction Clinical Phenotype Mental Health Treatments: Psychopharmacological, Biomedical, Complementary and Technologically Based Interventions Infant Cognition and Behavior Cognition and Behavior III	
10:30-12:30	Educational Symposia – Auditorium Reversing Autistic Symptoms from Mouse to Man				
10:30-12:30	Oral Session – Chamber Hall Genetics	Oral Session – Meeting Room 1 & 2 Brain Imaging	Oral Session – Meeting Room 3 Treatments: Behavioral Interventions		Oral Session – Meeting Room 4 & 5 Social and Adaptive Functioning
12:30-13:45	Lunch provided – stations throughout the Kursaal Centre				
12:30-13:30	INSAR Business Meeting – Meeting Room 3				

Special Interest Groups (SIGs)

7:30 - 9:00

Location listed under each session

New SIG: Minimally Verbal Individuals

Chairs: Nancy Jones, Ph.D., Terry Katz, Ph.D., Connie Kasari, Ph.D.
Meeting Room 8 & 9

An estimated thirty to forty percent of school age children with autism spectrum disorders (ASD) remain minimally verbal even after receiving years of interventions. Very little is known about individuals at this end of the autism spectrum partly because this is a highly variable population with no single set of defining characteristics, and partly because these individuals are excluded from most research studies. This SIG aims to promote research that will help characterize children with ASD who are nonverbal / minimally verbal and forge collaborations among researchers interested in developing new assessments and effective interventions.

We will use our first meeting to establish working groups of investigators at various levels of experience and training to develop priorities for new research programs. The goal is for workgroups to establish ongoing collaborations that will be reviewed at subsequent IMFAR meetings. Our SIG will have an initial focus on: characteristics of children with ASD who are minimally verbal, assessment methods of these children's abilities and skills, evaluation of co-occurring physical and psychiatric conditions, and effective interventions including augmentative supports.

New SIG: Approaching Adulthood: Transitional and Vocational Issues

Chairs: David Nicholas and Lonnie Zwaigenbaum

Meeting Room 1 & 2

Objectives

- (1) To identify gaps and opportunities for transitional and vocational research in ASD
- (2) To facilitate networking for research priority planning / development.

Widespread unemployment and under-employment is reflected in low employment rates for persons with ASD. In a population-based ASD sample, fewer than half of participants were in paid employment or post-secondary education two years post-high school. Workplace and community barriers are reported. Evidence-informed transitional and vocational supports are lacking, with insufficient evidence guiding practice.

To set the context, this SIG session will comprise initial, brief literature syntheses by SIG team members outlining (i) ASD transitional / vocational literature gaps, and (ii) promising practices based on emerging evidence. Facilitated small group discussion will then target salient issues: transition preparation, vocational support resource development / testing, employer needs, and post-secondary education access / success. For each issue, the following questions will guide discussion (facilitated by a moderator, time-keeper and note-taker): (i) research priorities, (ii) steps for moving forward, (iii) strategies to engage stakeholders, and (iv) tasks for research mobilization beyond IMFAR. Lastly, reports back to the larger group will reflect each small group's discussion, including commitment/plans for further work. We will seek to include self-advocates and employers in the session and research in moving forward.

Returning SIG: Autism Social, Ethical, and Legal Research

Chairs: Liz Pellicano, Bryna Siegel and Michael Yudell

Meeting Room 3

Risky business: How should we communicate "risk" information?

Recent scientific discoveries on autism have invoked a discourse of risk. Clinicians may talk about a child's "risk of developing autism." Scientists publish research describing environmental and / or genetic "risk factors" for developing autism. Educators speak of a child's "risk of a poor developmental outcome". And some members of the public believe that children who receive certain vaccines are "at risk of autism". The way that stakeholders communicate such risk information – especially information that is probabilistic in nature – has enormous implications for autistic people and their families and for public understanding of the condition.

How should we communicate "risk" information when the causes of autism or its developmental trajectory are not fully understood? And how should we tailor messages of risk to different stakeholders, including autistic individuals, parents, educators and practitioners and the broader public? In the second of a series of SIGs, we will discuss and debate the social, ethical and legal implications of issues surrounding risk communication. Speakers for the session include Simon Baron-Cohen, Professor of Developmental Psychopathology, Autism Research Centre, University of Cambridge; Michael Yudell, Associate Professor and Director, Program in Public Health Ethics and History, Drexel University School of Public Health; Stephen Shore, Assistant Professor of Education, Adelphi University; Holly Tabor (invited), Assistant Professor, Department of Pediatrics, Division of Bioethics, University of Washington School of Medicine; Martine Lappé (invited), Institute for Society and Genetics, University of California, Los Angeles.

This year the SIG will work to pair junior and senior scientists in the field interested in ethics and risk communication to work together to act as professional and research mentors on these issues. The SIG will also reserve twenty minutes during the session for junior scientists to offer brief presentations on their research in autism ethics and / or risk communication. If you are a junior scientist and are interested in presenting during this SIG, please send an email to myudell@drexel.edu.

Returning SIG: Global Knowledge Translation for Research on Early Identification and Intervention in Autism

Chairs: Mayada Elsabbagh and Petrus de Vries

Meeting Room 4 & 5

There is increasing appreciation of the need to enhance research impact through the iterative and dynamic process of knowledge translation: The synthesis, dissemination, exchange, and application of knowledge to improve quality of life for people affected by autism. This SIG will initiate dialogue, identifying knowledge gaps, barriers, and action priorities with a particular emphasis on global knowledge translation in the area of early identification and intervention for autism. The theme of this year's activities will be "Lost in translation: Scientifically valid and contextually appropriate use of early screening and diagnostic instruments."

Keynote Address

152 - The Epidemiology of Autism Spectrum Disorder: Toward a More Inclusive World

9:15 - 10:00 - Auditorium

Speaker: Maureen Durkin; *University of Wisconsin, Madison*

We live in an era of exciting advances in our awareness and understanding of autism spectrum disorder, but also a time of enormous global imbalance. Most of what is known about the epidemiology, genetics, clinical manifestation and course, treatment, and nearly every other aspect of autism is based on research in high income countries, where fewer than ten percent of births occur and less than twenty percent of the population lives globally. This talk will describe opportunities to expand the horizons of autism epidemiology and service delivery to include the eighty to ninety percent of affected individuals and families who live in low and middle income countries, as well as those who are socioeconomically disadvantaged and living in high income countries. It will also describe some of the cultural and financial barriers to progress, and make a case for incorporating concepts of the World Health Organization's International Classification of Disability and Functioning into the classification and epidemiology of autism spectrum disorder, with the ultimate goals to include not only primary prevention of autism but also enhancement of participation and social inclusion of people with autism spectrum disorder.

Educational Symposium

153 - Reversing Autistic Symptoms from Mouse to Man

10:30 - 12:30 - Auditorium

Session Chair: T. Hensch; *Harvard University*

The therapeutic promise of reversibility drives much of the research into mechanisms of autism spectrum disorders (ASD). This workshop will summarize recent advances in the ability to control critical periods of brain development and the successful recovery of function by various treatments in animal models of ASD. The concepts of excitatory-inhibitory balance, regulation of protein synthesis, and microglial activation will be highlighted. Plasticity at the right time and place is central to brain development and function throughout life. Sensory systems have revealed that cortical critical periods are driven by the dynamics of excitatory-inhibitory (E-I) circuit balance, which is often impaired in ASD. Circuit rewiring is a physical process, involving the pruning and construction of new connections, requiring well-orchestrated protein synthesis. Ultimately, molecular 'brakes' are expressed which actively clamp down on plasticity beyond early development. Resetting E-I balance or lifting these brakes in adulthood allows the successful reactivation of critical period plasticity. Correcting E-I imbalance with pharmacological inhibitors of neurotransmission is one way to rescue Rett syndrome in mice. Signaling cascades, including the mTOR pathway, couple neurotransmitter and neurotrophin receptors to the translation regulatory machinery during the formation of long-lasting synaptic plasticity. Mutations in the negative regulators of this machinery, such as Fragile X or eIF4E, are associated with ASD. Curbing the excessive protein synthesis may reverse these disorders. A further novel target may also include microglia, which normally contribute to synaptic pruning. Wild-type bone marrow transplants arrest disease pathology and increases life expectancy in Rett syndrome models, indicating an important role for immune-glia interactions as well. This session will consider the various rescue paradigms from the biological context of normal critical periods of brain development, which may be mis-timed or mis-regulated in ASD.

10:30 153.001 Reactivating Critical Periods of Brain Development.
T. Hensch, Center for Brain Science, Harvard University,
Cambridge, MA

- 11:00 153.002 NMDA Receptor Blockade Reverses Forebrain Deficits in Neuronal Activity and Behavioral Dysfunction in Mouse Models of Rett Syndrome. D. M. Katz¹, Case Western Reserve University, Cleveland, OH
- 11:30 153.003 Reversing Synaptic Dysfunction and Aberrant Behavior in Mouse Models of Autism Spectrum Disorder. E. Klann¹, Center for Neural Science, New York University, New York, NY
- 12:00 153.004 Targeted Treatments in Fragile X Syndrome. S. Jacquemont¹, A. Curie², V. des Portes³, M. G. Torrioli⁴, E. Berry-Kravis⁵, R. Hagerman⁶, F. J. Ramos⁷, K. Cornish⁸, Y. He⁹, C. Paulding⁹, G. Neri¹⁰, F. Gasparini¹¹, A. Floesser¹², J. Branson¹¹, G. Bilbe¹¹, D. Johns¹³ and B. Gomez-Mancilla¹³, (1)Medical Genetics, University Hospital of Lausanne, University of Lausanne, Lausanne, Switzerland, (2)Hospices Civils de Lyon, Université de Lyon and CNRS, Lyon, France, (3)Hospices Civils de Lyon, Université de Lyon and CNRS UMR 5230 (L2C2), Lyon, France, (4)Università Cattolica del Sacro Cuore, Cattedra di Neuropsichiatria Infantile, Rome, Italy, (5)Rush University Medical Center, Chicago, IL, (6)Fragile X Research and Treatment Center, UC Davis M.I.N.D. Institute, Sacramento, CA, (7)Department of Pediatrics, University of Zaragoza Medical School, Zaragoza, Spain, (8)School of Psychology, Psychiatry, & Psychological Medicine, Victoria, Australia, (9)Biomarker Development, Novartis Institutes for Biomedical Research, Cambridge, MA, (10)Università Cattolica del Sacro Cuore, Istituto di Genetica Medica, Rome, Italy, (11)Neuroscience Discovery, Novartis Pharma AG, Basel, Switzerland, (12)Neuroscience Clinical Sciences and Innovation, Novartis Institutes for Biomedical Research, Novartis Pharma AG, Basel, Switzerland, (13)Neuroscience Translational Medicine, Novartis Institutes for Biomedical Research, Novartis Pharma AG, Basel, Switzerland
- 11:15 154.004 Examining the Developmental Trajectory of Social Functioning for Adolescents and Young Adults with ASD. M. N. Park¹, R. Ellingsen², C. E. Lin¹, A. Gantman¹ and E. Laugeson¹, (1)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA, (2)University of California Los Angeles, Venice, CA
- 11:30 154.005 Longitudinal Trajectory of Adaptive Behavior in Individuals with Fragile X Syndrome. C. Klaiman¹, B. Jo², A. A. Lightbody², L. C. Chromik² and A. L. Reiss², (1)Department of Pediatrics, Emory University School of Medicine and Marcus Autism Center, Atlanta, GA, (2)Psychiatry, Stanford University, Stanford, CA
- 11:45 ▶ 154.006 The Functional Profile of Children with Autism Spectrum Disorders: A Study with the Vineland Adaptive Behavior Scale (VABS) At Different Intellectual Levels Versus Non Autism Population. S. Mougá^{1,2}, J. Almeida¹, C. Café¹, F. Duque¹ and G. Oliveira^{1,2,3}, (1)Unidade de Neurodesenvolvimento e Autismo – Centro de Desenvolvimento Luís Borges (CDLB), Hospital Pediátrico Carmona da Mota (HP) – Centro Hospitalar e Universitário de Coimbra (CHUC), Coimbra, Portugal, (2)Laboratório de Neurociências da Visão, IBILI, Faculdade de Medicina – Universidade de Coimbra, Coimbra, Portugal, (3)Centro de Formação e Investigação e Formação Clínica (CIFC), Hospital Pediátrico Carmona da Mota (HP) – Centro Hospitalar e Universitário de Coimbra (CHUC), Coimbra, Portugal
- 12:00 ▶ 154.007 Relationship Between Adaptive Functioning and Autism Symptom Severity. C. Montiel-Nava¹, Z. Gonzalez², J. A. Chacín³, J. Pena¹ and E. Solís⁴, (1)La Universidad del Zulia, Maracaibo, Venezuela, (2)Human Genetic, Hospital de Especialidades Pediátricas, Maracaibo, Venezuela, (3)Human Genetic, La Universidad del Zulia, Maracaibo, Venezuela, (4)Human Genetics, La Universidad del Zulia, Maracaibo, Venezuela
- 12:15 ▶ 154.008 The Role of Racial Diversity: Examining Differences in Parent Report of Adaptive Behavior. B. Brooks¹, K. A. Casagrande¹, L. Herlihy² and D. L. Robins¹, (1)Department of Psychology, Georgia State University, Atlanta, GA, (2)Department of Psychology, University of Connecticut, Storrs, CT

Oral Sessions

154 - Social and Adaptive Functioning

10:30 - 12:30 - Meeting Room 4 & 5

- 10:30 154.001 Understanding the Relationship Between Friendship Quality and Peer Conflict Following the UCLA PEERS[®] School-Based Curriculum. M. M. Wasserman^{1,2,3}, M. K. Kalies², R. Ellingsen⁴, Y. Bolourian¹ and E. Laugeson⁵, (1)The Help Group - UCLA Autism Research Alliance, Sherman Oaks, CA, (2)UCLA PEERS Clinic, Los Angeles, CA, (3)Pepperdine University, Los Angeles, CA, (4)University of California Los Angeles, Venice, CA, (5)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA
- 10:45 154.002 Relationship Between Self-Concept and Peer Victimization Amongst Adolescents with Autism Spectrum Disorders. A. R. Dillon¹, R. Ellingsen², J. Hopkins³ and E. Laugeson⁴, (1)Pacific Graduate School of Psychology, Palo Alto, CA, (2)University of California Los Angeles, Venice, CA, (3)Department of Psychiatry, UCLA PEERS Clinic, Los Angeles, CA, (4)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA
- 11:00 154.003 Virtual Social-Attention, Anxiety and ADHD in Older Children with ASD. P. C. Mundy¹, W. Jarrold², J. Bailenson³, M. Gwaltney⁴, N. McIntyre⁵, N. V. Hatt⁶, M. Solomon⁷ and K. Kim⁸, (1)2825 50Th Street, UC Davis, Sacramento, CA, (2)UC Davis, Davis, CA, (3)Communication Science, Stanford University, Stanford, CA, (4)University of California Davis, Learning & Mind Sciences, Sacramento, CA, (5)U.C. Davis, Davis, CA, (6)University of California at Davis, Davis, CA, (7)Department of Psychiatry, M.I.N.D. Institute, Imaging Research Center, Sacramento, CA, (8)M.I.N.D. Institute, UC Davis, Davis, CA

Oral Sessions

155 - Genetics

10:30 - 12:30 - Chamber Hall

- 10:30 155.001 Impact of Pathogenic Structural Variants on Gene Expression in ASD. D. H. Geschwind^{1,2}, R. Luo^{3,4} and Y. Tian⁵, (1)Program in Neurogenetics Dept. of Neurology, David Geffen School of Medicine at UCLA, Los Angeles, CA, (2)Semel Institute for Neuroscience and Human Behavior, Center for Autism Research and Treatment, Los Angeles, CA, (3)UCLA, Los Angeles, CA, (4)ACCESS Program, UCLA Department of Human Genetics, UCLA, Los Angeles, CA, (5)ACCESS Program, UCLA Program, University of California Los Angeles, Los Angeles, CA
- 10:45 155.002 A Long Noncoding RNA, MSNP1AS, Contributes to ASD Risk. T. K. Kerin¹, A. Ramanathan², K. Rivas², N. Grepov², G. A. Coetzee³ and D. B. Campbell^{2,4}, (1)Preventive Medicine, University of Southern California, Los Angeles, CA, (2)Zilkha Neurogenetic Institute, University of Southern California, Los Angeles, CA, (3)Urology and Preventive Medicine, University of Southern California, Los Angeles, CA, (4)Psychiatry and the Behavioral Sciences, University of Southern California, Los Angeles, CA

- 11:00 155.003 Whole-Exome and CNV Data for ASD Sex Bias. S. J. Sanders¹ and M. W. State, Genetics, Yale University School of Medicine, New Haven, CT
- 11:15 155.004 Identification of Common Epigenetic Alterations in Autism. A. P. Feinberg¹, C. Ladd-Acosta¹, N. Parikhshak², A. R. Runarsson¹, K. D. Hansen³, R. Irizarry⁴, M. D. Fallin⁵, W. E. Kaufmann⁶ and D. H. Geschwind⁷, (1)Center for Epigenetics, Johns Hopkins University, Baltimore, MD, (2)Neurology, UCLA, Los Angeles, CA, (3)Institute of Genetic Medicine, Johns Hopkins University, Baltimore, MD, (4)Johns Hopkins University, Baltimore, MD, (5)Johns Hopkins School of Public Health, Baltimore, MD, (6)Neurology, Boston Children's Hospital, Boston, MA, (7)Program in Neurogenetics Dept. of Neurology, David Geffen School of Medicine at UCLA, Los Angeles, CA
- 11:30 155.005 Characteristics and Predictive Value of Blood Transcriptome Signature in Males with Autism Spectrum Disorders. S. W. Kong¹, Pediatrics / Informatics Program, Children's Hospital Boston / Harvard Medical School, Boston, MA
- 12:00 155.006 Whole Genome Sequencing in Autism Identifies Hotspots for De Novo Germline Mutation. J. J. Michaelson¹, Y. Shi², M. Gujral¹, H. Zheng³, D. Malhotra¹, T. E. Gadoski⁴, J. A. Estabillo⁵, C. Corsello⁶, N. Akshoomoff⁷, Y. Li⁸, L. M. Iakoucheva¹, J. Wang³ and J. Sebat¹, (1)University of California San Diego, La Jolla, CA, (2)BGI Shenzhen, Shenzhen, China, (3)BGI-Shenzhen, Shenzhen, China, (4)Autism Discovery Institute, San Diego, CA, (5)UCSD & Rady Children's Hospital, San Diego, CA, (6)University of California, San Diego, La Jolla, CA, (7)Psychiatry, University of California, San Diego, La Jolla, CA, (8)BGI-Shenzhen, Shenzhen, China
- 12:15 155.007 Simons VIP: Expanding the Characterization of the 16p11.2 Duplication Syndrome. A. V. Snow¹, L. Green-Snyder², R. Bernier³, R. P. Goin-Kochel⁴, F. K. Miller¹, J. E. Olson¹, K. Porche¹ and E. Hanson⁵, (1)Developmental Medicine, Boston Children's Hospital, Boston, MA, (2)Boston Children's Hospital, Boston, MA, (3)University of Washington, Seattle, WA, (4)Pediatrics, Psychology Section, Baylor College of Medicine, Houston, TX, (5)Children's Hospital Boston, Boston, MA
- 12:30 155.008 Multiplex Targeted Sequencing Identifies Recurrently Mutated Genes in Autism Spectrum Disorders. B. J. O'Roak¹, L. Vives¹, W. Fu¹, J. D. Egerton¹, L. B. Tanaway¹, I. J. Phelps¹, G. L. Carvill¹, A. Kumar¹, C. Zeng¹, K. Ankenman¹, J. Munson¹, J. B. Hiatt¹, E. H. Biernacki¹, K. Levy¹, D. O'Day¹, N. Krumm¹, B. Coe¹, B. Martin¹, E. Boenstein¹, D. A. Nickerson¹, H. C. Mefford¹, D. Doherty¹, J. Akey¹, R. Bernier¹, E. E. Eichler^{1,2} and J. Shendure³, (1)University of Washington, Seattle, WA, (2)Howard Hughes Medical Institute, Seattle, WA, (3)Department of Genome Sciences, University of Washington, Seattle, WA

Oral Sessions

156 - Brain Imaging

10:30 - 12:30 - Meeting Room 1-2

- 10:30 156.001 Increased Ratio of Short to Long Range Structural Connections in the BRAIN in ASD – the Relationship Between Grey and White Matter Wiring. C. Ecker¹, E. Daly², C. M. Murphy³, M. Gudbrandsen⁴, N. Gillan⁵, M. Aims⁵, M. Catani¹ and D. G. Murphy⁵, (1)Institute of Psychiatry, London, United Kingdom, (2)Department of Forensic and Neurodevelopmental Sciences, King's College London, Institute of Psychiatry, London, United Kingdom, (3)King's College London, Institute of Psychiatry, London, United Kingdom, (4)Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, London, United Kingdom, (5)Department of Forensic and Neurodevelopmental Sciences, King's College London, Institute of Psychiatry, London, United Kingdom, (6)Forensic and Neurodevelopmental Sciences Department, Institute of Psychiatry, King's College London, London, United Kingdom
- 10:45 156.002 Oxytocin's Impact on Core Brain and Behavioral Features of ASD in Children. I. Gordon¹, R. H. Bennett², C. Cordeaux³, M. V. Lucas¹, B. C. Vander Wyk⁴, J. F. Leckman³, R. Feldman⁵ and K. A. Pelphrey³, (1)Yale University, New Haven, CT, (2)Yale Child Study Center, New Haven, CT, (3)Child Study Center, Yale University, New Haven, CT, (4)Yale Child Study Center, Yale University, New Haven, CT, (5)Gonda Multidisciplinary Brain Research Center, Bar-Ilan University, Ramat-Gan, Israel
- 11:00 156.003 Longitudinal Analysis of the Corpus Callosum in Preschool-Aged Children with Autism Spectrum Disorder. C. W. Nordahl¹, G. S. Young¹, L. M. Perry², R. F. Dougherty², A. Lee³, D. D. Li³, S. Liston¹, T. J. Simon¹, S. J. Rogers³, B. A. Wandell² and D. G. Amaral³, (1)UC Davis M.I.N.D. Institute, Sacramento, CA, (2)Psychology, Stanford University, Palo Alto, CA, (3)M.I.N.D. Institute and Department of Psychiatry and Behavioral Sciences, University of California Davis Medical Center, Sacramento, CA
- 11:15 156.004 Neural Activation to Sentences in Individuals with High-Functioning Autism, Typical Development, and Autism Spectrum Disorder Optimal Outcome. I. M. Eigsti¹, M. C. Stevens², R. T. Schultz³, L. Naigles⁴, E. A. Kelley⁵, A. Orinstein⁴, K. E. Tyson⁴, E. Troyb⁴, M. Barton⁶ and D. A. Fein⁶, (1)Psychology, University of Connecticut, Storrs, CT, (2)Institute of Living, Hartford Hospital / Yale University, Hartford, CT, (3)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (4)University of Connecticut, Storrs, CT, (5)Queen's University, Kingston, ON, Canada, (6)Clinical Psychology, University of Connecticut, Storrs, CT
- 11:30 156.005 Gender Differences in the Neuroanatomy of Young Children with Autism Spectrum Disorders Detected by Machine Learning Techniques. S. Calderoni¹, A. Retico², A. Giuliano², L. Biagi³, M. Tosetti³ and F. Muratori⁴, (1)Magnetic Resonance Laboratory, Division of Child Neurology and Psychiatry University of Pisa; Stella Maris Scientific Institute, Pisa, Italy, (2)Istituto Nazionale di Fisica Nucleare; Sezione di Pisa, Pisa, Italy, (3)Magnetic Resonance Laboratory, Stella Maris Scientific Institute, Pisa, Italy, (4)University of Pisa – Stella Maris Scientific Institute, Pisa, Italy
- 11:45 156.006 Characterization of Neural Disconnectivity in Autism: A Large-Sample Diffusion Tensor Imaging Study Using Tract-Based Spatial Statistics. J. K. Leung^{1,2}, C. Cordeaux², S. K. Mitchell², I. Y. Murphy², K. A. Pelphrey² and R. J. Jou², (1)Department of Pediatrics, Yale School of Medicine, New Haven, CT, (2)Child Neuroscience Lab, Child Study Center, Yale School of Medicine, New Haven, CT

12:00 156.007 The Autism Brain Imaging Data Exchange (ABIDE): Background, Rationale, and Implementation. M. P. Milham¹, Child Mind Institute, Center for Developing Brain at Child Mind Institute, New York, NY

11:30 157.005 Early Social Interaction Project for Toddlers with Autism Spectrum: Effects On Social Communication, Developmental Level, Adaptive Behavior, and Autism Symptoms. A. M. M. Wetherby¹, J. J. Woods¹, W. Guthrie^{1,2}, C. Schatschneider², R. Holland¹, L. Morgan¹ and C. Lord³, (1)Florida State University Autism Institute, Tallahassee, FL, (2)Department of Psychology, Florida State University, Tallahassee, FL, (3)Center for Autism and the Developing Brain, Weill Cornell Medical College, White Plains, NY

Oral Sessions

157 - Treatments: Behavioral Interventions

10:30 - 12:30 - Meeting Room 3

10:30 157.001 Comparative Effectiveness Trial of School and Home-Based Executive Functioning Versus Social Skills Intervention for Children with Asd; Part 2: Performance-Based Effects. L. Kenworthy¹, M. A. Werner², K. C. Alexander², J. F. Strang¹, M. Wills¹, C. Luong-Tran¹, J. L. Sokoloff¹, E. Bal¹, L. Cannon², A. C. Sharber³, M. Rosenthal⁴, G. L. Wallace⁵ and L. G. Anthony¹, (1)Center for Autism Spectrum Disorders, Children's National Medical Center, Rockville, MD, (2)Ivymount School, Rockville, MD, (3)Children's National Medical Center, Rockville, MD, (4)Child Mind Institute, New York, NY, (5)National Institute of Mental Health, Bethesda, MD

11:45 157.006 Enhancing Mothers' Interactions with Toddlers. N. Jaegermann¹ and P. S. Klein², (1)School of Education, Bar-Ilan University, Israel, Ramat-Gan, Israel, (2)School of Education, Bar Ilan University, Israel, Ramat-Gan, Israel

10:45 157.002 Moderators of a Theory of Mind Intervention for Children with Autism Spectrum Disorder: A Randomized Controlled Trial. S. Begeer^{1,2}, E. Hoddenbach¹, P. Clifford³, C. Gevers³, C. Clauser⁴, F. Boer⁵ and H. M. Koot⁶, (1)Developmental Psychology, VU University Amsterdam, Amsterdam, Netherlands, (2)Developmental Psychology, University of Sydney, Sydney, Australia, (3)Wei43, Amsterdam, Netherlands, (4)Poli ASS, De Bascule, Duivendrecht, Netherlands, (5)De Bascule, University of Amsterdam, Amsterdam, Netherlands, (6)VU University, Amsterdam, Netherlands

12:00 157.007 Randomized Controlled Trial of Pivotal Response Treatment (PRT) Parent Training Group. G. W. Gengoux¹, M. B. Minjarez², K. L. Berquist³, J. M. Phillips⁴, T. W. Frazier⁵ and A. Y. Hardan⁶, (1)Stanford University School of Medicine / Lucile Packard Children's Hospital, San Mateo, CA, (2)Seattle Children's Hospital, Seattle, WA, (3)Stanford University, Stanford, CA, (4)Psychiatry & Behavioral Sciences, Stanford University, Stanford, CA, (5)Center for Autism, Cleveland Clinic Lerner College of Medicine, Cleveland, OH, (6)Psychiatry and Behavioral Sciences, Stanford University School of Medicine, Stanford, CA

11:00 157.003 One Size Doesn't Fit All — A Randomized Comparison of Intensive Imitation Versus Treatment As Usual. M. Heimann^{1,2}, B. Spjut Janson^{3,4} and T. Tjus⁴, (1)Dept of Behavioral Science & Learning, Linköping University, Linköping, Sweden, (2)The Swedish Institute for Disability Research, Linköping, Sweden, (3)Habilitation and Health, Region Västra Götaland, Gothenburg, Sweden, (4)Department of Psychology, University of Gothenburg, Gothenburg, Sweden

12:15 ▶ 157.008 Telehealth Delivery of Cognitive-Behavioral Intervention for Rural Youth with ASD and Anxiety: Feasibility and Preliminary Efficacy. S. Hepburn¹, J. Reaven² and A. Blakeley-Smith³, (1)Psychiatry & Pediatrics, University of Colorado / JFK Partners, Aurora, CO, (2)Psychiatry & Pediatrics, JFK Partners / University of Colorado School of Medicine, Aurora, CO, (3)Psychiatry & Pediatrics, University of Colorado School of Medicine / JFK Partners, Aurora, CO

11:15 157.004 Effects of Intensive Play-Based Toddler Intervention: A Multi-Site, Randomized Trials of the Early Start Denver Model. S. J. Rogers¹, A. Estes², C. Lord³, A. L. Fitzpatrick⁴, G. Dawson⁵, J. Winter⁴, M. L. Rocha⁶ and L. A. Vismara⁷, (1)UC Davis M.I.N.D. Institute, Sacramento, CA, (2)Speech and Hearing Sciences, University of Washington, Seattle, WA, (3)Center for Autism and the Developing Brain, Weill Cornell Medical College, White Plains, NY, (4)University of Washington, Seattle, WA, (5)Autism Speaks, UNC Chapel Hill, Chapel Hill, NC, (6)UC Davis M.I.N.D. Institute, Sacramento, CA, (7)University of California at Davis M.I.N.D. Institute, Sacramento, CA

Poster Sessions

158 - Cognition and Behavior

9:00 - 13:00 - Banquet Hall

10:00 1 158.001 Eye-Tracking Study Investigating Performance Differences Between ASD and Non-ASD Groups in Simple and Complex Emotion Recognition Tasks. J. Adachi¹, Hokkaido University of Education, Asahikawa City, Japan

11:00 2 158.002 A-ToM: A New Measure of Theory of Mind in Adults. N. Brewer¹ and R. L. Young, School of Psychology, Flinders University, Adelaide, Australia

12:00 3 158.003 Meta-Analysis of Imitation Abilities in Children with Autism Spectrum Disorders. L. A. Edwards¹ and C. A. Nelson², (1)Harvard University, Boston Children's Hospital, Boston, MA, (2)Boston Children's Hospital, Boston, MA

10:00 ▶ 4 158.004 Prevalence of Neuro-Developmental Disorders in India. V. B. Deshmukh¹, A. Mohapatra², S. Gulati², M. Nair³, V. K. Bhutani⁴, D. H. Silberberg⁵, N. K. Arora⁶ and I. Group⁷, (1)The INCLIN Trust International, New Delhi, India, (2)Department of Pediatrics, All India Institute of Medical Sciences, New Delhi, India, (3)Department of Pediatrics, Medical College, Thiruvananthapuram, India, (4)Department of Pediatrics, Division of Neonatal and Developmental Medicine, Stanford University School of Medicine and Lucile Packard Children's Hospital, Stanford, CA, (5)Department of Neurology, University of Pennsylvania Medical Center, Philadelphia, PA, (6)INCLIN Executive Office, The INCLIN Trust International, New Delhi, India, (7)The INCLIN NDD Study Group, The INCLIN Trust International, New Delhi, India

11:00 5 158.005 Importance of Group Intervention on ASD-Generalization of Social Skills. A. Ana Aguiar¹ and A. Mira Coelho², (1)Centro de Educação e Terapia, Porto, Portugal, (2)Pediatric / Psychiatric Department Hospital S.Joao, Porto, Portugal

Poster Sessions
159 - Epigenetics and Gene-Environment Interaction
 9:00 - 13:00 - Banquet Hall

10:00 6 159.006 Complex Epigenetic Regulation of Engrailed-2 (EN-2) Homeobox Transcription Factor Gene in the Autism Cerebellum. S. J. James¹, S. Shpyleva², S. Melnyk^{1,3}, O. Pavliv¹ and I. P. Pogribny⁴, (1)University of Arkansas for Medical Sciences, Little Rock, AR, (2)Biochemical Toxicology, National Center for Toxicological Research, Jefferson, AR, (3)Pediatrics, University of Arkansas for Medical Sciences, Little Rock, AR, (4)National Center for Toxicological Research, Jefferson, AR

11:00 7 159.007 An Integrative Epigenome-Wide Autism Association Study. C. Ladd-Acosta¹, A. R. Runarsson², J. Bonner³, B. K. Lee⁴, L. A. A. Croen⁵, L. A. Schieve⁶, D. E. Schendel⁷, A. P. Feinberg⁸ and M. D. Fallin¹, (1)Johns Hopkins School of Public Health, Baltimore, MD, (2)Center for Epigenetics, Johns Hopkins University, Baltimore, MD, (3)Michigan State University, East Lansing, MI, (4)Drexel University School of Public Health, Philadelphia, PA, (5)Kaiser Permanente Division of Research, Oakland, CA, (6)National Center on Birth Defects and Developmental Disabilities, Atlanta, GA, (7)National Center on Birth Defects and Developmental Disabilities, CDC, Atlanta, GA

12:00 8 159.008 Identification of Gene-Environment Interactions Associated with Autism. M. D. Fallin¹, B. K. Lee², J. Bonner³, B. Sheppard¹, N. B. Gidaya⁴, L. A. Weiss⁵, J. Quinn⁵, G. C. Windham⁶, A. M. Reynolds⁷, L. A. A. Croen⁸, D. E. Schendel⁹, C. J. Newschaffer² and C. Ladd-Acosta¹, (1)Johns Hopkins School of Public Health, Baltimore, MD, (2)Drexel University School of Public Health, Philadelphia, PA, (3)Michigan State University, East Lansing, MI, (4)Drexel University, Philadelphia, PA, (5)University of California San Francisco, San Francisco, CA, (6)California Dept of Public Health, Richmond, CA, (7)University of Colorado Denver, Aurora, CO, (8)Kaiser Permanente Division of Research, Oakland, CA, (9)National Center on Birth Defects and Developmental Disabilities, CDC, Atlanta, GA

10:00 9 159.009 Genome-Wide DNA Methylation Profiles in Post-Mortem Brains from Subjects with Autism. K. Iwata¹, H. Matsuzaki¹, K. Nakamura² and N. Mori², (1)Research Center for Child Mental Development, Hamamatsu University School of Medicine, Hamamatsu, Japan, (2)Hamamatsu University School of Medicine, Hamamatsu, Japan

11:00 10 159.010 Epigenetic and Related Transcriptional Alterations Affecting Chromatin Remodelling and Synaptic Genes in Autism Spectrum Disorders. A. Homs^{1,2,3}, I. Cusco^{1,2,3}, B. Rodríguez-Santiago⁴, C. M. Villanueva^{3,5,6} and L. A. Pérez-Jurado^{1,2,3}, (1)The Centre for Biomedical Network Research on Rare Diseases (CIBERER), Barcelona, Spain, (2)Departament de Ciències Experimentals i de la Salut, Universitat Pompeu Fabra, Barcelona, Spain, (3)Institut de Investigació Sanitària IMIM-Hospital del Mar, Barcelona, Spain, (4)Research and Development, Quantitative Genomic Medicine Laboratories, S.L. (qGenomics), Barcelona, Spain, (5)Center for Research in Environmental Epidemiology (CREAL), Barcelona, Spain, (6)Biomedical Research Centre Network for Epidemiology and Public Health (CIBERESP), Barcelona, Spain

Poster Sessions
160 - Clinical Phenotype
 9:00 - 13:00 - Banquet Hall

10:00 11 160.011 Adaptive Behavior and IQ: A Developmental Trajectory Analysis of Individuals Served by the TEACCH Autism Program from 1965-2000. A. T. Meyer¹, P. S. Powell², L. G. Klinger³ and M. R. Klinger⁴, (1)University of North Carolina - Chapel Hill, Chapel Hill, NC, (2)University of North Carolina - Chapel Hill, Durham, NC, (3)TEACCH Autism Program, Department of Psychiatry, University of North Carolina, Chapel Hill, NC, (4)University of North Carolina - Chapel Hill, Chapel Hill, NC

11:00 12 160.012 New ADI-R Algorithms for Children and Young People with ASD: Implications for DSM-5. A. Le Couteur¹, P. James², D. Hammal² and H. McConachie³, (1)Institute of Health & Society, Newcastle University, Newcastle upon Tyne, United Kingdom, (2)Newcastle University, Newcastle upon Tyne, United Kingdom, (3)Newcastle University, Newcastle upon Tyne, United Kingdom

12:00 13 160.013 The Sexual Profile of Adults with High Functioning Autism and Asperger's Syndrome. I. Henault¹ and T. Attwood², (1)Psychology-Sexology, Autism & Asperger Clinic of Montreal, Montreal, QC, Canada, (2)The Asperger Clinic, Brisbane, Australia, Petrie, QLD, Australia

10:00 14 160.014 Sensory Features in Autism: Physiological and Behavioral Characterization. R. Schaaf¹ and T. Benevides, Thomas Jefferson University, Philadelphia, PA

11:00 15 160.015 Multiplex Versus Simplex Autism: Different Phenotypic Severity. C. Amiet^{1,2}, J. Carayol², B. Génin², V. Guinchat^{1,3} and D. Cohen^{1,3}, (1)Department of Child and Adolescent Psychiatry, Groupe Hospitalier Pitié-Salpêtrière, APHP, Paris, France, (2)IntegraGen SA, Evry, France, (3)Institut des systèmes intelligents et de robotique, Université Pierre et Marie Curie, Paris VI, Paris, France

12:00 16 160.016 Using the Communication Checklist – Adult (CC-A) to Identify Pragmatic Impairment in High-Functioning Young Adults with ASD (HFA): Preliminary Results. W. Mitchell¹ and J. Volden, University of Alberta, Edmonton, AB, Canada

10:00 17 160.017 Social Communication and Autistic Triad Trait Patterns in Preschoolers with Severe Visual Impairment. N. J. Dale¹, R. MacKechnie² and A. Salt¹, (1)Wolfson Neurodisability Service, Great Ormond Street Hospital NHS Foundation Trust, London, United Kingdom, (2)Neuroscience Unit, UCL Institute of Child Health, London, United Kingdom

11:00 18 160.018 A Cross-Cultural Comparison of Autistic Traits: UK, India, Malaysia. M. Freeth¹, E. Sheppard², R. Ramachandran³ and E. Milne⁴, (1)Psychology, University of Sheffield, Sheffield, United Kingdom, (2)Psychology, University of Nottingham Malaysia Campus, Semenyih, Malaysia, (3)Psychology, University of Calicut, Malappuram, India, (4)The University of Sheffield, Sheffield, United Kingdom

12:00 19 160.019 Peers' Evaluation of Stories Told by Optimal Outcome Children with a History of Autism Spectrum Disorders. J. Suh¹, I. M. Eigsti², L. Naigles¹, M. Barton², A. Orinstein¹, K. E. Tyson¹, E. Troyb¹, M. Rosenthal³, M. Helt¹, R. T. Schultz⁴, M. C. Stevens⁵, E. A. Kelley⁶ and D. A. Fein², (1)University of Connecticut, Storrs, CT, (2)Clinical Psychology, University of Connecticut, Storrs, CT, (3)Child Mind Institute, New York, NY, (4)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (5)Institute of Living, Hartford Hospital / Yale University, Hartford, CT, (6)Queen's University, Kingston, ON, Canada

- 10:00 20 160.020 Early Diagnostic Severity Is Predictive of Not Maintaining ASD Diagnosis. D. N. Abrams¹, D. L. Robins² and L. B. Adamson¹, (1)Georgia State University, Atlanta, GA, (2)Department of Psychology, Georgia State University, Atlanta, GA
- 11:00 21 160.021 Sex Differences in the Expression of Autism Spectrum Disorders in Children. J. Shenouda¹, S. Neves², H. Patel², P. Khandge³, R. Baltus⁴ and W. W. Zahorodny⁵, (1)UMDNJ – New Jersey Medical School, Newark, NJ, (2)New Jersey Autism Study, Newark, NJ, (3)Pediatrics, New Jersey Medical School – University of Medicine & Dentistry of New Jersey, Newark, NJ, (4)Pediatrics, New Jersey Medical School – University of Medicine & Dentistry of New Jersey, Newark, NJ, (5)New Jersey Medical School, Westfield, NJ
- 12:00 22 160.022 Association of Early Generalized Overgrowth to Clinical Outcome in ASD. D. J. Campbell¹, J. Chang² and K. Chawarska¹, (1)Child Study Center, Yale University School of Medicine, New Haven, CT, (2)Statistics, Yale University, New Haven, CT
- 10:00 23 160.023 Neurodevelopmental Phenotype in Pitt-Hopkins Syndrome. I. D. van Balkom¹ and R. C. Hennekam², (1)Jonx, Dept of Youth Mental Health, Lentis Psychiatric Institute, Zuidlaren, Netherlands, (2)Department of Pediatrics H7-236, Academic Medical Center, University of Amsterdam, Amsterdam, Netherlands
- 11:00 24 160.024 Testing the Boundaries of Autism Spectrum Disorder in DSM-5. W. Mandy¹, T. Charman² and D. H. Skuse³, (1)University College London, London, United Kingdom, (2)Centre for Research in Autism & Education, Institute of Education, London, United Kingdom, (3)Behavioural and Brain Sciences Unit, Institute of Child Health, UCL, London, United Kingdom
- 12:00 25 160.025 Risk for Social Behavioral Problems and Autistic Traits in Children with an Extra X Chromosome. H. Swaab¹, Department of Clinical Child and Adolescent Studies, Leiden University, Faculty of Social Sciences, Leiden, Netherlands
- 10:00 26 160.026 What about the Girls? Examination of Gender Differences in a University Wide ASD Sample. A. Vehorn¹, A. S. Weitlauf¹, Z. Warren¹ and K. Gotham², (1)Vanderbilt Kennedy Center, Nashville, TN, (2)Vanderbilt University, Nashville, TN
- 11:00 27 160.027 Identifying Autism Genes in Large Multiplex Families. N. J. Brown^{1,2,3}, M. Bahlo⁴, P. Lockhart⁵, L. Gordon⁶, T. Vick³, C. Bromhead⁴, P. Hickey⁴, H. Mountford⁵, G. Gilles⁵, E. Fitzpatrick⁶, P. H. Hewson³, M. Delatycki⁷, V. Anderson⁸, S. Wilson⁹ and I. E. Scheffer¹⁰, (1)Victorian Clinical Genetics Service, Melbourne, Australia, (2)Paediatrics, University of Melbourne, Melbourne, Australia, (3)Barwon Health, Geelong, Australia, (4)Bioinformatics, The Walter and Eliza Hall Institute of Medical Research, Parkville, Australia, (5)Bruce Lefroy Centre for Genetic Health Research, MCRI, Melbourne, Australia, (6)Murdoch Childrens Research Institute, Melbourne, Australia, (7)Austin Health, Melbourne, Australia, (8)Psychology, Royal Children's Hospital, Melbourne, Australia, (9)Psychological Sciences, University of Melbourne, Melbourne, Australia, (10)Florey Institute of Neurosciences and Mental Health, University of Melbourne, Melbourne, Australia
- 12:00 28 160.028 Behaviour Problems Among School-Aged Children with ASD: Associations with Children's Communication Problems and Parenting Behaviours. H. Boonen^{1,2}, J. P. W. Maljaars^{1,2}, G. Lambrechts^{1,2}, K. Van Leeuwen¹ and I. Noens^{1,2}, (1)Parenting and Special Education Research Unit, University of Leuven (KU Leuven), Leuven, Belgium, (2)Leuven Autism Research (LAuRes), University of Leuven (KU Leuven), Leuven, Belgium
- 10:00 29 160.029 Increased Heartbeat Interoception Is Predicted by Autism Spectrum Traits in the Typical Population. N. David¹, R. T. Azevedo^{2,3}, B. Lenggenhager⁴, S. M. Aglioti^{2,3} and I. Minio-Paluello^{2,3}, (1)Department of Neurophysiology, University Medical-Center Hamburg Eppendorf, Hamburg, Germany, (2)Department of Psychology, Sapienza Università di Roma, Rome, Italy, (3)Istituto di Ricovero e Cura a Carattere Scientifico, Fondazione Santa Lucia, Rome, Italy, (4)University Hospital of Child and Adolescent Psychiatry, Bern, Switzerland
- 11:00 30 160.030 Autism Symptomatology in Males with Chromosomal Aneuploidies: A Comparison with Idiopathic Autism. N. R. Lee¹, A. C. Sharber², L. S. Clasen¹, D. Fidler³, S. Hepburn⁴, C. Robinson⁴, L. Kenworthy², J. Giedd¹ and G. L. Wallace¹, (1)National Institute of Mental Health, Bethesda, MD, (2)Children's National Medical Center, Rockville, MD, (3)Colorado State University, Fort Collins, CO, (4)University of Colorado, Aurora, CO
- 12:00 31 160.031 Association Between SSRI Exposure During Pregnancy with Behaviors and Conditions Among Children with ASD. R. A. Harrington¹, L. C. Lee², R. M. Crum¹, A. W. Zimmerman³ and I. Hertz-Picciotto⁴, (1)Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (2)Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (3)Lurie Center / MGH, Lexington, MA, (4)University of California at Davis, Davis, CA
- 10:00 32 160.032 Comparison of Behavioral Development and Socio-Demographics Between Infants and Young Children at Higher or Lower Risk for ASD. M. A. Feldman¹, R. A. Ward² and A. Hendry², (1)Centre for Applied Disability Studies, Brock University, St. Catharines, ON, Canada, (2)Centre for Applied Disability Studies, Brock University, St. Catharines, ON, Canada
- 11:00 33 160.033 Does WISC-IV Underestimate the Intelligence of Autistic Children? A. M. Nader¹, V. Courchesne², I. Soulières¹ and M. Dawson², (1)University of Quebec in Montreal, Montreal, QC, Canada, (2)Service de Recherche, Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada
- 12:00 34 160.034 Social/Emotional Functioning in Optimal Outcome Children with a History of Autism Spectrum Disorders. D. A. Fein¹, K. E. Tyson², M. Barton¹, I. M. Eigsti³, L. Naigles², E. Troyb², A. Orinstein² and M. Helt², (1)Clinical Psychology, University of Connecticut, Storrs, CT, (2)University of Connecticut, Storrs, CT, (3)Psychology, University of Connecticut, Storrs, CT
- 10:00 35 160.035 Characteristics of Children Who Lost an Autism Diagnosis: A Sample from Istanbul, Turkey. N. M. Mukaddes¹ and D. Tutkunkardas², (1)Istanbul University, Istanbul Faculty of Medicine, Istanbul, Turkey, (2)Istanbul University, Istanbul, Turkey
- 11:00 36 160.036 Growth Dysregulation in Boys with Autism Spectrum Disorder. C. Green¹, C. Dissanayake¹ and D. Loesch², (1)Olga Tennison Autism Research Centre, School of Psychological Science, La Trobe University, Bundoora, Australia, (2)School of Psychological Science, La Trobe University, Bundoora, Australia
- 12:00 37 160.037 Understanding Women on the Autism Spectrum: Clinical Profiles of 70 Women with Mild ASDs. L. J. Burke¹, K. P. Stoddart^{1,2} and S. Abdelsayed¹, (1)The Redpath Centre, Toronto, ON, Canada, (2)Factor-Inwentash Faculty of Social Work, University of Toronto, Toronto, ON, Canada
- 10:00 38 160.038 "The Evolution of Clinical Phenotyping in Post-Mortem Brain Tissue Research: Summary of Progress and Challenges". C. K. Hare¹ and J. Pickett², (1)Autism Speaks, Pittsburgh, PA, (2)Autism Speaks, San Diego, CA
- 11:00 39 160.039 Behavioral Differences Across Sensory Processing Subtypes in Children Ages 6-10 with and without Autism. K. J. Tanner¹, B. Hand and A. E. Lane, The Ohio State University, Columbus, OH

- 12:00 40 160.040 Developmental Functioning and Medical Comorbidity Profile of Children with Complex and Essential Autism. J. Bellando¹, J. Flor² and M. Lopez³, (1)University of Arkansas for Medical Sciences, Little Rock, AR, (2)Pediatrics, University of Arkansas for Medical Sciences, Little Rock, AR, (3)Dennis Development Center, Little Rock, AR
- 10:00 41 160.041 Joint Attention and Social-Communicative Abilities of Siblings of Children with ASD. E. Demurie¹, P. Warreyn, I. Schietecatte, N. L. Dewaele, M. Dereu and H. Roeyers, Ghent University, Ghent, Belgium
- 11:00 ▶ 42 160.042 Autism Spectrum Disorders: Clinical Features in a Large Portuguese Population Sample. F. Duque^{1,2}, S. Mougá^{1,3}, J. Almeida⁴, C. Café¹ and G. Oliveira^{1,2,3,4}, (1)Unidade de Neurodesenvolvimento e Autismo – Centro de Desenvolvimento Luís Borges (CDLB), Hospital Pediátrico Carmona da Mota (HP) – Centro Hospitalar e Universitário de Coimbra (CHUC), Coimbra, Portugal, (2)Faculdade de Medicina da Universidade de Coimbra, Coimbra, Portugal, (3)Instituto Biomédico de Investigação em Luz e Imagem, Faculdade de Medicina da Universidade de Coimbra, Coimbra, Portugal, (4)Centro de Formação e Investigação e Formação Clínica (CIFC), Hospital Pediátrico Carmona da Mota (HP) – Centro Hospitalar e Universitário de Coimbra (CHUC), Coimbra, Portugal
- 12:00 43 160.043 Behavioral Subtypes and Challenging Behaviors. J. Dempsey¹, S. M. Kanne², S. L. Bishop³ and R. P. Goin-Kochel⁴, (1)Psychology Section, Baylor College of Medicine / Texas Children's Hospital, Houston, TX, (2)Baylor College of Medicine, Missouri City, TX, (3)Center for Autism and the Developing Brain, Weill Cornell Medical College, White Plains, NY, (4)Pediatrics, Psychology Section, Baylor College of Medicine, Houston, TX
- 10:00 44 160.044 The Link Between Dyadic Synchrony and Maternal Well-Being in Infants At Varying Degrees of Risk for Autism Spectrum Disorders. B. C. Gamber¹ and A. R. Neal-Beevers, Department of Psychology, University of Texas at Austin, Austin, TX
- 11:00 45 160.045 Adaptive Functioning in Toddlers with and without ASD: A Comparison of Two Widely Used Measures. J. Pandey¹, S. Kauper², S. Paterson³ and T. IBIS Network⁴, (1)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA, (2)Children's Hospital of Philadelphia, Philadelphia, PA, (3)University of Pennsylvania, Philadelphia, PA, (4)University of North Carolina - Chapel Hill, Chapel Hill, NC
- 12:00 46 160.046 Language Regression in ASD: A 30-Year Longitudinal Study Investigating Outcomes in Adulthood. S. Harward¹, M. Farley¹, J. Viskochil², E. Haygeman¹, D. Bilder¹, W. M. McMahon³ and A. E. Cook¹, (1)University of Utah, Salt Lake City, UT, (2)Utah Autism Research Program, Salt Lake City, UT, (3)Psychiatry, University of Utah, Salt Lake City, UT
- 10:00 ♦ 47 160.047 Autism Spectrum Disorders and the Gender Mixed Brain. J. M. Eriksson¹ and S. Bejerot², (1)Clinical Neuroscience, Karolinska Institutet, Stockholm, Sweden, (2)Karolinska institutet, Stockholm, Sweden
- 11:00 48 160.048 Are ADI-R and ADOS-G Sufficiently Sensitive to Identify Rirbs Necessary to Meet the DSM-V Restricted Interest and Repetitive Behaviours Criteria?. C. Jacques¹, S. Mineau² and L. Mottron², (1)Département de Psychoéducation et de Psychologie, Université du Québec à Ottawa (UQO), Gatineau, QC, Canada, (2)Service de Recherche, Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada
- 12:00 49 160.049 The Social Responsiveness Scale: The Relation to Parent Rated Social Outcomes in Youth with ASD. K. Johnston¹ and G. Iarocci², (1)Simon Fraser University, Burnaby, BC, Canada, (2)Department of Psychology, Simon Fraser University, Burnaby, BC, Canada

- 10:00 50 160.050 Reward Learning Influences Social Reciprocity: The Impact of Autistic and Behavioural Inhibition Traits. M. S. Panasiti^{1,2}, I. Puzzo¹ and B. Chakrabarti¹, (1)Centre for Integrative Neuroscience and Neurodynamics, University of Reading, Reading, United Kingdom, (2)Psychology, Sapienza University of Rome, Rome, Italy

**Poster Sessions
161 - Mental Health**

9:00 - 13:00 - Banquet Hall

- 10:00 51 161.051 Persistent Intolerance of Uncertainty: A Mechanism for Anxiety in Children with ASD? M. South¹, S. White², P. D. Chamberlain³, M. H. Freeston⁴ and J. Rodgers⁵, (1)Psychological Sciences and Neuroscience Center, Brigham Young University, Provo, UT, (2)Center for Neuroscience, University of California, Davis, Davis, CA, (3)Neuroscience Center, Brigham Young University, Provo, UT, (4)Newcastle University, Newcastle, United Kingdom, (5)Institute of Neuroscience, Newcastle University, Newcastle upon Tyne, United Kingdom
- 11:00 52 161.052 A New Perspective: A Network Analysis of Repetitive Behaviors in Autism and Obsessive Compulsive Disorder. L. M. Ruzzano¹, D. Borsboom¹ and H. M. Geurts², (1)Department of Psychology, University of Amsterdam, Amsterdam, Netherlands, (2)Department of Psychology, Brain and Cognition, University of Amsterdam, Amsterdam, NH, Netherlands
- 12:00 53 161.053 ASD Characteristics in Elderly with Mood and Anxiety Disorders. H. M. Geurts^{1,2,3} and H. Comijs⁴, (1)Weesperplein 4, University of Amsterdam, Amsterdam, NH, Netherlands, (2)Dr. Leo Kannerhuis, Amsterdam, Netherlands, (3)Psychology (Brain and Cognition), d'Arc (Dutch Autism and ADHD Research Center), Amsterdam, Netherlands, (4)Psychiatry, GGZInGeest / Vu University Medical Center, Amsterdam, Netherlands
- 10:00 54 161.054 Affective Symptoms in Adolescents with Autism: Differentiating the Correlates of Anxiety, Depression and Irritability. E. Simonoff¹, T. Charman², F. Happe³, G. Baird⁴, C. Jones⁵ and A. Pickles⁶, (1)Child & Adolescent Psychiatry, Institute of Psychiatry, King's College London, London, United Kingdom, (2)Centre for Research in Autism & Education, Institute of Education, London, United Kingdom, (3)SGDP, IoP, King's College London, London, United Kingdom, (4)Guy's Hospital, London, United Kingdom, (5)University of Essex, Colchester, United Kingdom, (6)University of Manchester, Manchester, United Kingdom
- 11:00 55 161.055 Aggressive Behaviors in ASD: Prevalence and Correlates in a Large Clinical Sample. A. D. Hagen¹, D. J. Kriz¹, S. W. Duvall¹, D. Ettinger¹, C. Green¹, A. P. Hill², K. Freeman¹, J. van Santen², J. Nigg¹, D. A. Fair¹ and E. Fombonne³, (1)Oregon Health & Science University, Portland, OR, (2)Center for Spoken Language Understanding, Oregon Health & Science University, Beaverton, OR, (3)Psychiatry, Oregon Health and Sciences University, Portland, OR
- 12:00 56 161.056 Anxiety Disorders in Autism Spectrum Disorders (ASD) without Intellectual Disabilities. M. Soussana, J. Brisot-Dubois and A. Baghdadi¹, Autism Resources Center, CHRU Montpellier and Laboratory Epsilon, Montpellier, France
- 10:00 57 161.057 Attentional Biases to Emotional Faces in People with Autism Spectrum Disorders & Co-Occurring Anxiety. A. Ozsivadjian¹, M. J. Hollocks², P. Howlin³ and E. Simonoff², (1)Newcomen Centre, Guy's Hospital, London, United Kingdom, (2)Child & Adolescent Psychiatry, Institute of Psychiatry, King's College London, London, United Kingdom, (3)Department of Psychology, Institute of Psychiatry, King's College London, London, United Kingdom

- 11:00 58 161.058 Autism Spectrum Disorders in Children and Adolescents with Attention Deficit Hyperactivity Disorder. S. Herguner¹ and A. Herguner, Department of Child and Adolescent Psychiatry, NE University, Meram Faculty of Medicine, Konya, Turkey
- 12:00 59 161.059 Autistic Traits Predict High Self-Perceived Stress and Poor Coping in High-Functioning Adults with ASD. T. Hirvikoski¹ and M. Blomqvist², (1)Department of Women's and Children's Health, Center for Neurodevelopmental Disorders at Karolinska Institutet, Karolinska Institutet, Stockholm, Sweden, (2)Department of Dental Medicine, Division of Pediatric Dentistry, Karolinska Institutet, Stockholm, Sweden
- 10:00 60 161.060 Autistic Traits in Children with ADHD Index Clinical and Cognitive Problems. J. Martin¹, M. Cooper, K. Langley, M. Hamshere and A. Thapar, Institute of Psychological Medicine and Clinical Neurosciences, Cardiff University, Cardiff, United Kingdom
- 11:00 61 161.061 Catatonia in Autism Spectrum Disorders: A Diagnostic, Therapeutic, and Scientific Conundrum. D. M. Dhoosche¹, University of Mississippi Medical Center, Jackson, MS
- 12:00 62 161.062 Child, Parent, and Systemic Correlates of Comorbid Anxiety and Depression in Adolescents and Adults with ASD. J. A. Weiss¹, A. Tint¹ and Y. Lunsky², (1)York University, Toronto, ON, Canada, (2)Centre for Addiction and Mental Health, Toronto, ON, Canada
- 10:00 63 161.063 Clinical Correlates of Personality in ASD. J. P. Teunisse^{1,2,3}, A. van der Sijde⁴ and H. Berger³, (1)Research and Development, Dr. Leo Kannerhuis, Doorwerth, Netherlands, (2)Hogeschool van Arnhem en Nijmegen, Nijmegen, Netherlands, (3)Medical Psychology, Radboud University Nijmegen Medical Centre, Nijmegen, Netherlands, (4)De Steiger, Yulius Autisme, Dordrecht, Netherlands
- 11:00 64 161.064 Co-Occurring Symptoms in a Mixed Clinical Sample of Children with Autism Spectrum Disorders. N. Bilenberg¹ and M. Paus², (1)Child and Adolescent Psychiatry, University of Southern Denmark, Odense C, Denmark, (2)Child and Adolescent Psychiatry, University of Southern Denmark, Odense, Denmark
- 12:00 65 161.065 Cognitive Task Performance Is Related to ADHD — Not Autistic — Symptomatology in Children with ASD. D. A. Pearson¹, K. A. Loveland¹, M. G. Aman², C. W. Santos¹, R. Mansour¹, D. M. Lane³, S. Vanwoerden¹, E. Perez^{1,4}, J. Phillips¹, C. Miekka^{1,3}, T. Dang^{1,3} and L. A. Cleveland¹, (1)Psychiatry & Behavioral Sciences, University of Texas Medical School, Houston, TX, (2)Ohio State University, Columbus, OH, (3)Department of Psychology, Rice University, Houston, TX, (4)Department of Educational Psychology, University of Houston College of Education, Houston, TX
- 10:00 66 161.066 Discriminant and Convergent Validity for the Anxiety Construct in Children with ASD. P. A. Renno¹ and J. J. Wood², (1)Graduate School of Education, University of California, Los Angeles, Los Angeles, CA, (2)Departments of Education and Psychiatry, University of California Los Angeles, Los Angeles, CA
- 11:00 ▶ 67 161.067 Do Caregivers and Children / Youth with Autism Spectrum Disorders (ASD) Agree When Reporting Anxiety Difficulties? A Study Investigating Parent-Child Agreement Using the Spence Children's Anxiety Scale (SCAS). I. Magiati¹, J. Y. Chan², J. W. Tan², K. Poon³, M. Sung⁴ and D. Fung⁵, (1)Department of Psychology, National University of Singapore, Singapore, (2)Psychology, National University of Singapore, Singapore, (3)Early Childhood and Special Needs, National Institute of Education, Singapore, (4)Child Guidance Clinic, Institute of Mental Health, Singapore, (5)Child Guidance Clinic, Institute of Mental Health, Singapore
- 12:00 68 161.068 Early Phenotype and Developmental Trajectories of Children with ASD With and Without Comorbid ADHD. P. Rao¹ and R. Landa, Kennedy Krieger Institute, Baltimore, MD
- 10:00 69 161.069 Emotions and Aggression in Young Adolescents with an Autism Spectrum Disorder; A Longitudinal Study. C. Rieffe¹, L. B. Pouw¹, E. Broekhof¹ and L. Stockmann², (1)Leiden University, Leiden, Netherlands, (2)Centrum Autisme Rivierduinen, Leiden, Netherlands
- 11:00 70 161.070 Empirically Established Typologies of Comorbid Disorders in Adolescents with ASD. B. L. Baker¹, J. Blacher², C. Neece³ and B. Caplan¹, (1)Department of Psychology, UCLA, Los Angeles, CA, (2)Graduate School of Education, University of California, Riverside, CA, (3)Department of Psychology, Loma Linda University, Loma Linda, CA
- 12:00 71 161.071 Examining Behaviour and Emotional Problems in Preschool Children with Developmental Delay. K. M. Gray¹, J. R. Taffe¹, C. Keating², D. Sweeney¹, S. L. Einfeld³ and B. J. Tonge¹, (1)Centre for Developmental Psychiatry and Psychology, School of Psychology & Psychiatry, Monash University, Clayton VIC, Australia, (2)Centre for Developmental Psychiatry and Psychology, School of Psychology & Psychiatry, Monash University, Clayton, Australia, (3)Faculty of Health Sciences and Brain and Mind Research Institute, University of Sydney, Camperdown NSW, Australia
- 10:00 72 161.072 Examining the Relationship Between Parental Substance Use, Child Problem Behaviors, and the Broad Autism Phenotype. J. L. Wade¹, N. B. Cox¹, R. E. Reeve¹ and M. F. Hull², (1)Clinical and School Psychology, University of Virginia, Charlottesville, VA, (2)Education Leadership, Foundations, and Policy, University of Virginia, Charlottesville, VA
- 11:00 ▶ 73 161.073 Examining the Similarities and Differences in Behavioral and Emotional Problems in Children with Autism Spectrum Disorders and Those Diagnosed with Anxiety Related Disorders. S. J. Weng^{1,2}, M. Sung^{1,2}, M. Raja¹, S. Sung^{1,2}, L. Y. Jang¹, D. S. S. Fung^{1,3,4} and Y. P. Ooi^{1,2,5}, (1)Child and Adolescent Psychiatry, Institute of Mental Health, Singapore, Singapore, (2)Office of Clinical Sciences, Duke-NUS Graduate Medical School, Singapore, Singapore, (3)Duke-NUS Graduate Medical School, Singapore, Singapore, (4)Nanyang Technological University, Singapore, Singapore, (5)Psychology, University of Basel, Basel, Switzerland
- 12:00 74 161.074 Exploring the Agreement Between Dimensional CBCL Measures and Categorical DSM-IV Diagnoses of Comorbid Psychopathology in Children with Autism Spectrum Disorders. E. Gjevik¹, Institute of Clinical Medicine, University of Oslo, Oslo, Norway
- 10:00 75 161.075 Factor Structure and Measurement Invariance of the Spence Children's Anxiety Scale — Parent Version Across Anxious and ASD Groups. M. Glod¹, J. Rodgers², M. South³, S. A. Baldwin⁴, C. Creswell⁵ and H. McConachie¹, (1)Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom, (2)Institute of Neuroscience, Newcastle University, Newcastle upon Tyne, United Kingdom, (3)Department of Psychology and Neuroscience Center, Brigham Young University, Provo, UT, (4)Department of Psychology, Brigham Young University, Provo, UT, (5)School of Psychology and Clinical Language Sciences, University of Reading, Reading, United Kingdom
- 11:00 76 161.076 Five-Year Follow-Up of Preschoolers with Autism and Comorbid Psychiatric Disorders. J. Kim¹, S. F. Freeman², T. Paparella² and S. R. Forness², (1)Resnick Neuropsychiatric Hospital, UCLA, Los Angeles, CA, (2)Department of Psychiatry and Biobehavioral Sciences, UCLA, Los Angeles, CA
- 12:00 77 161.077 Follow-Up of Maladaptive Behaviors in Youth with Autism Spectrum Disorders: Changes and Predictors Over Two to Eight Years. M. Chowdhury¹ and M. G. Aman², (1)Department of Psychology, Allegheny College, Meadville, PA, (2)Ohio State University, Columbus, OH

- 10:00 78 161.078 Formal Thought Disorder in Children with Autism Spectrum Disorder: Indicator of Future Psychotic Symptoms or Indicator of Severe Autistic Symptoms. A Seven-Year Follow-Up Study. M. Eussen¹, E. I. de Bruin², A. R. Van Gool³, S. C. Louwerse⁴, F. Verheij⁵, F. C. Verhulst⁶ and K. Greaves-Lord⁶, (1)Yulius Mental Health Organization, Dordrecht, DR, Netherlands, (2)University of Amsterdam, Amsterdam, Netherlands, (3)Yulius Academy, Dordrecht, Netherlands, (4)Erasmus MC - Sophia, Rotterdam, Netherlands, (5)Sophia Children's Hospital, Rotterdam, Netherlands, (6)Department of Child & Adolescent Psychiatry / Psychology, Erasmus MC - Sophia's Childrens Hospital, Rotterdam, Netherlands
- 11:00 79 161.079 Genetic and Environmental Components of the Relationship Between the ASD Triad and Mental Health Problems Measured by Strengths and Difficulties Questionnaire (SDQ). B. Tick¹, F. Rijdsdijk, F. McEwen and F. Happe, SGDP, IoP, King's College London, London, United Kingdom
- 12:00 80 161.080 HRV As a Measure of Arousal in Social Interaction for Individuals with ASD. L. Guy¹, L. E. Bradstreet², C. M. DeLussey³, L. Le³ and J. D. Herrington⁴, (1)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA, (2)Department of Psychology, Georgia State University, Atlanta, GA, (3)The Children's Hospital of Philadelphia, Philadelphia, PA, (4)Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA
- 10:00 81 161.081 Heart Rate Variability and Anxiety in Autism Spectrum Disorders. L. Le¹, I. Giserman¹, V. Y. Chow¹, L. N. Berry², C. M. DeLussey¹, L. Guy¹ and J. D. Herrington³, (1)The Children's Hospital of Philadelphia, Philadelphia, PA, (2)Pediatrics, Psychology Section, Baylor College of Medicine, Houston, TX, (3)Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA
- 11:00 82 161.082 Inattention and Hyperactivity in Association with Autism Spectrum Disorders in the CHARGE Study. K. Lyall¹, J. Schweitzer², M. Solomon², R. J. Schmidt^{1,2} and I. Hertz-Picciotto^{3,4}, (1)Public Health Sciences, University of California, Davis, Davis, CA, (2)Psychiatry, University of California, Davis M.I.N.D. Institute, Sacramento, CA, (3)Public Health Sciences, University of California, Davis, CA, (4)UC Davis M.I.N.D. Institute, Sacramento, CA
- 12:00 83 161.083 Internalizing Problems in Children with ASD. J. A. de Ruiter¹, M. de Bruine¹, L. B. Pouw¹, E. Broekhof¹, L. Stockmann², K. Gadow³ and C. Rieffe¹, (1)Leiden University, Leiden, Netherlands, (2)Centrum Autisme Rivierduinen, Leiden, Netherlands, (3)State University of New York, Stony Brook, NY
- 10:00 84 161.084 Intolerance of Uncertainty and Coping Strategies As Correlates of Anxiety in Mothers of Children with ASD. M. Uljarevic¹, J. Lidstone², S. R. Leekam³, A. S. Le Couteur⁴, D. W. Evans⁵, M. H. Freeston⁶, H. McConachie⁷, J. Rodgers⁸ and M. Prior^{9,10}, (1)Wales Autism Research Centre, School of Psychology, Cardiff University, Cardiff, United Kingdom, Cardiff, United Kingdom, (2)Cardiff University, Cardiff, United Kingdom, (3)Wales Autism Research Centre, School of Psychology, Cardiff University, Cardiff, United Kingdom, (4)Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom, (5)Psychology, Bucknell University, Lewisburg, PA, (6)Newcastle University, Newcastle, United Kingdom, (7)Newcastle University, Newcastle upon Tyne, United Kingdom, (8)Institute of Neuroscience, School of Medical Sciences, Newcastle University, Newcastle upon Tyne, United Kingdom, (9)Melbourne School of Psychological Sciences, Carlton North, Australia, (10)Melbourne School of Psychological Sciences, Melbourne, Australia
- 11:00 85 161.085 Mental Health Outcomes Amongst Higher Ability Adults with Autism and Adult Siblings of People with Autism. P. Moss¹ and P. Howlin², (1)University College London, London, United Kingdom, (2)Department of Psychology, Institute of Psychiatry, King's College London, London, United Kingdom
- 12:00 86 161.086 Mental Health Problems Among Siblings of Children with Autism. J. L. Taylor¹, Vanderbilt Kennedy Center, Nashville, TN
- 10:00 87 161.087 Neural Response During Emotion Elicitation in ASD: Importance of Depression History and Positive Emotion. C. A. Mazefsky¹, T. Goldstein², T. N. Day³, N. J. Minshew⁴ and G. J. Siegle⁴, (1)University of Pittsburgh School of Medicine, Wexford, PA, (2)Psychiatry, University of Pittsburgh School of Medicine, Pittsburgh, PA, (3)University of Pittsburgh ACE, Pittsburgh, PA, (4)University of Pittsburgh, Pittsburgh, PA
- 11:00 88 161.088 Neurophysiological Responses to Emotional Faces Discriminate Children with ASD and / or ADHD. C. Tye¹, M. Battaglia², E. Bertoletti³, K. L. Ashwood¹, B. Azadi¹, P. Asherson¹, P. F. Bolton¹ and G. McLoughlin¹, (1)Institute of Psychiatry, King's College London, London, United Kingdom, (2)Laval University and Institut Universitaire en Santé Mentale de Québec, Beauport, QC, Canada, (3)Academic Centre for the Study of Behavioural Plasticity, Vita-Salute San Raffaele University, Milan, Italy
- 12:00 89 161.089 Predictors of Comorbid Psychopathology in High-Functioning Children and Adolescents with Autism Spectrum Disorders. E. Bal¹, B. E. Yerys², C. Luong-Tran¹, I. Eisenberg³, (1)Children's National Medical Center, Rockville, MD, (2)Children's Hospital of Philadelphia, Philadelphia, PA, (3)National Institute of Mental Health, Bethesda, MD
- 10:00 90 161.090 Sexual Behavior in Adolescents and Young Adults Diagnosed with Autism Spectrum Disorder: A Parent's Perspective. M. J. Lang¹, D. R. Morrison¹, L. Martin² and K. Shier³, (1)Counseling and School Psychology, Azusa Pacific University, Azusa, CA, (2)Azusa Pacific University, Azusa, CA, (3)Azusa Pacific University, La Verne, CA
- 11:00 91 161.091 Significant Gender X Autism Status Interactions in Middle Childhood on Variables Related to Difficult Temperament. B. D. Barger¹, J. M. Campbell² and C. A. Simmons³, (1)University of Georgia, Athen, GA, (2)University of Kentucky, Lexington, KY, (3)University of Georgia, Athens, GA
- 12:00 92 161.092 Sleep Quality and Parent-Adolescent Relationships. M. M. Abdullah¹ and W. A. Goldberg², (1)University of California, Irvine, Irvine, CA, (2)Psychology and Social Behavior, University of California, Irvine, Irvine, CA
- 10:00 93 161.093 Suicidal Behaviour in Adolescents with Autism Spectrum Disorders. T. Hurtig^{1,2}, I. K. Moilanen³, M. L. Mattila⁴, S. Kuusikko-Gauffin³, K. Jussila³ and H. Ebeling⁵, (1)Clinic of Child Psychiatry, University of Oulu, Kempele, Finland, (2)Institute of Health Sciences, University of Oulu, Oulu, Finland, (3)University of Oulu, Oulu, Finland, (4)Child Psychiatric Clinic, University of Oulu, Oulu, Finland, (5)University and University Hospital of Oulu, Oulu, Finland
- 11:00 94 161.094 Symptoms of Psychiatric Comorbidity and Social Functioning in Adolescents with ASD. C. E. Lin¹, M. N. Park², S. Bates³, J. Hopkins⁴ and E. Laugeson⁵, (1)Department of Psychiatry and Biobehavioral Sciences, UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA, (2)Department of Psychiatry and Biobehavioral Sciences, UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA, (3)UCLA PEERS Program, Los Angeles, CA, (4)Department of Psychiatry, UCLA PEERS Clinic, Los Angeles, CA, (5)UCLA Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA
- 12:00 95 161.095 The Neurocognitive and Psychiatric Profile of Callous Unemotional Traits in Autism Spectrum Disorders. V. Carter Leno¹, T. Charman², C. Jones³, F. Happé⁴, G. Baird⁵, A. Pickles¹ and E. Simonoff¹, (1)Institute of Psychiatry, London, United Kingdom, (2)Centre for Research in Autism & Education, Institute of Education, London, United Kingdom, (3)University of Essex, Colchester, United Kingdom, (4)MRC Social, Genetic & Developmental Psychiatry, Institute of Psychiatry, King's College London, London, United Kingdom, (5)Guy's Hospital, London, United Kingdom, (6)Child & Adolescent Psychiatry, Institute of Psychiatry, King's College London, London, United Kingdom

- 10:00 96 161.096 The Physiological Correlates of Anxiety in Autism Spectrum Disorders. M. J. Hollocks¹, L. E. Grayson¹, A. Papadopoulou², P. Howlin³ and E. Simonoff¹, (1)Child & Adolescent Psychiatry, Institute of Psychiatry, King's College London, London, United Kingdom, (2)Psychological Medicine, King's College London, London, United Kingdom, (3)Department of Psychology, Institute of Psychiatry, King's College London, London, United Kingdom
- 11:00 ▶ 97 161.097 The Relationship Between Parents' Mental Health and the Gravity of Autism Symptoms. S. B. Machado, M. P. Ponde¹, M. I. Celestino and J. P. Serra, Medicine, BAHIANA School of Medicine and Public Health, Salvador, Brazil
- 12:00 98 161.098 The Swedish Eating Assessment for Autism Spectrum Disorders (SWEAA) – Development and Validation of a Self-Report Questionnaire Targeting Disturbed Eating Behaviours within the Autism Spectrum. L. Karlsson¹, M. Råstam² and E. Wentz¹, (1)Institute of Neuroscience and Physiology, Gillberg Neuropsychiatry Centre, University of Gothenburg, Gothenburg, Sweden, (2)Department of Clinical Sciences, Lund University, Child and Adolescent Psychiatry, Lund, Sweden
- 10:00 ▶ 99 161.099 The Utility of the Spence Children's Anxiety Scale (SCAS) in Screening for Anxiety Disorders in Children and Youth with Autism Spectrum Disorders. I. Magiati¹, J. W. Tan², H. B. Z. Nur², J. Y. Chan², K. Poon³, M. Sung⁴ and D. Fung⁵, (1)Psychology, National University of Singapore, Singapore, (2)Psychology, National University of Singapore, Singapore, (3)Early Childhood and Special Needs, National Institute of Education, Singapore, (4)Child Guidance Clinic, Institute of Mental Health, Singapore, (5)Child Guidance Clinic, Institute of Mental Health, Singapore
- 11:00 100 161.100 Understanding Comorbid Conditions in Children and Adolescents with ASD. E. Hanson¹, S. Maisel², K. Porche² and C. Powell³, (1)Children's Hospital Boston, Boston, MA, (2)Developmental Medicine, Boston Children's Hospital, Boston, MA, (3)Boston Children's Hospital, Boston, MA
- 12:00 103 162.103 Association of Serum Cytokine Levels, Treatment Response, and Weight Gain in Children with Autism Spectrum Disorders Following 8 Weeks Treatment of Risperidone. J. E. Choi¹, P. Ashwood², F. Widjaja¹, M. Careaga² and R. Hendren¹, (1)University of California, San Francisco, San Francisco, CA, (2)Medical Microbiology and Immunology, The M.I.N.D. Institute, University of California, Davis, Sacramento, CA
- 10:00 104 162.104 Pharmacotherapy in Autism: A Prospective One-Year Study with Risperidone. J. Almeida¹, S. Mougá^{1,2}, C. Marques¹, F. Caramelo³, J. M. Pereira³, A. M. Vicente⁴, F. Duque¹ and G. Oliveira^{1,2,5}, (1)Unidade de Neurodesenvolvimento e Autismo – Centro de Desenvolvimento Luís Borges (CDLB), Hospital Pediátrico Carmona da Mota (HP) – Centro Hospitalar e Universitário de Coimbra (CHUC), Coimbra, Portugal, (2)Laboratório de Neurociências da Visão, IBILI, Faculdade de Medicina – Universidade de Coimbra, Coimbra, Portugal, (3)Laboratory of Biostatistics and Medical Informatics, IBILI - Faculty of Medicine, University of Coimbra, Coimbra, Portugal, (4)Instituto Nacional de Saúde Doutor Ricardo Jorge, Lisbon, Portugal, (5)Centro de Formação e Investigação e Formação Clínica (CIFC), Hospital Pediátrico Carmona da Mota (HP) – Centro Hospitalar e Universitário de Coimbra (CHUC), Coimbra, Portugal
- 11:00 105 162.105 Laasda: Loxapine Add-On for Adolescents and Adults with Autism Spectrum Disorders, Aggression and Irritability. J. A. Hellings¹, J. Han², G. Reed³, S. Cain³, F. Barth³, M. Logan³, J. Hayes³ and M. Butler³, (1)McCampbell Hall, The Ohio State University Nlsonger Center, Columbus, OH, (2)NICHD, Bethesda, MD, (3)University of Kansas Medical Center, Kansas City, KS
- 12:00 106 162.106 Efficacy and Safety of Lisdexamfetamine Dimesylate in Adolescents with Attention-Deficit / Hyperactivity Disorder. T. Banaschewski¹, M. Gasior², L. Squires², R. Bloomfield³ and D. Coghill⁴, (1)Child and Adolescent Psychiatry and Psychotherapy, Central Institute of Mental Health, Medical Faculty, Mannheim, University of Heidelberg, Mannheim, Germany, (2)Shire Development LLC, Wayne, PA, (3)Shire Pharmaceutical Development Ltd, Basingstoke, United Kingdom, (4)Division of Neuroscience, University of Dundee, Dundee, United Kingdom
- 10:00 107 162.107 Medication Use in Adolescents and Adults with ASD: The Role of Clinical, Parent, and Service Need Factors. J. K. Lake^{1,2}, Y. Lunsky² and J. A. Weiss³, (1)Department of Psychiatry, University of Toronto, Toronto, ON, Canada, (2)Centre for Addiction and Mental Health, Toronto, ON, Canada, (3)York University, Toronto, ON, Canada
- 11:00 108 162.108 Clinical and Laboratory Results from Randomized Controlled Trial of Methylcobalamin Injections for Children with Autism. F. Widjaja¹, J. E. Choi¹, S. Bent¹, S. J. James² and R. L. Hendren¹, (1)University of California, San Francisco, San Francisco, CA, (2)University of Arkansas for Medical Sciences, Little Rock, AR
- 12:00 109 162.109 Biomarkers of Change in Social Impairment and Aberrant Behaviors Among Children with Autism. S. L. Logan¹, L. A. Carpenter², L. B. King², C. A. Cheely², J. Charles², W. Jenner², I. Singh³ and J. S. Nicholas², (1)Ste 303, Medical University of South Carolina, Charleston, SC, (2)Medical University of South Carolina, Charleston, SC, (3)Pediatrics, Medical University of South Carolina, Charleston, SC
- 10:00 ▶ 110 162.110 Dietary Patterns Among Children with Autism in Oman: A Study Protocol. N. M. Al-Kindi¹, M. Al-Shafae¹, M. I. Waly¹, M. Al-Sharbaty¹, A. Ouhitit¹, M. M. Al-Khaduri¹, S. al-Adwai¹ and Y. M. Al-Farsi¹, Sultan Qaboos University, Muscat, Oman

Poster Sessions
162 - Treatments: Psychopharmacological, Biomedical, Complementary and Technologically-Based Interventions
 9:00 - 13:00 - Banquet Hall

- 10:00 101 162.101 A Randomized Controlled Trial of a Course of Oxytocin Nasal Spray to Treat Youth with Autism. A. J. Guastella¹, S. L. Einfeld², K. M. Gray³, N. Rinehart⁴, B. J. Tonge⁵, I. B. Hickie⁶, G. Alvares⁶, C. Keating⁷ and C. Cacciotti⁶, (1)University of Sydney, Sydney, NSW, Australia, (2)Faculty of Health Sciences and Brain and Mind Research Institute, University of Sydney, Camperdown NSW, Australia, (3)Monash University, Ferny Creek 3786, Australia, (4)Monash University, Victoria, Australia, (5)Centre for Developmental Psychiatry and Psychology, School of Psychology & Psychiatry, Monash University, Clayton VIC, Australia, (6)Brain & Mind Research Institute, University of Sydney, Sydney, Australia, (7)Centre for Developmental Psychiatry and Psychology, School of Psychology & Psychiatry, Monash University, Clayton, Australia
- 11:00 102 162.102 Intranasal Oxytocin for the Treatment of Core Symptom Domains in Children and Adolescents ASD: A Maximum Tolerated Dose Study. E. Anagnostou¹, S. Jacob² and J. A. Brian³, (1)Bloorview Research Institute, Toronto, ON, Canada, (2)University of Illinois at Chicago, Chicago, IL, (3)Holland Bloorview / Sick Kids, Toronto, ON, Canada

- 11:00 111 162.111 The Therapeutic Breakfast as a Tool for Improving Eating Behaviors and Communication Skills in Children with ASD. Y. Evron¹, A. Jokel², Y. Shmaya³, O. Leon⁴, S. Shefer⁵ and L. V. Gabis⁶, (1)Weinberg Child Development Department, Tel Hashomer, Safra Children's hospital, Kiryat Ono, Israel, (2)Weinberg Child Development Department, Tel-Hashomer, Safra Children's Hospital, Ramat Gan, Israel, (3)Weinberg Child Development Department, Tel Hashomer, Safra Children's Hospital, Ramat-Gan, Israel, (4)Weinberg Child Development Department, Tel Hashomer, Safra Children's Hospital, Ramat-Gan, Israel, (5)The Sheba Medical Center The Weinberg Child Development Center, Ramat-Gan, Israel, (6)Weinberg Child Development Center, Ramat-Gan, Israel
- 12:00 112 162.112 Attention Preference of Animals in Children with Autism Spectrum Disorders — an Eye-Tracking Study. C. Wang¹, Y. Yu², X. Zhou² and M. M. Hussey³, (1)Center for Behavioural Science, School of Medicine, Nankai University, Tianjin, China, (2)Department of Social Psychology, Nankai University, Tianjin, China, (3)Beijing Normal University, Beijing, China
- 10:00 113 162.113 Sensory Integration — A Randomized Trial for Children with Autism. R. Schaaf¹ and T. Benevides², (1)Occupational Therapy, Thomas Jefferson University, Philadelphia, PA, (2)Thomas Jefferson University, Philadelphia, PA
- 11:00 114 162.114 Pressure Garments as a Regulator of Behavior of Children and Adolescents in Autism Spectrum Disorders (ASD). A. Lehto¹, T. Ukura², I. K. Moilanen^{3,4} and H. Ebeling⁵, (1)Department of Child Psychiatry, Institute of Clinical Medicine, University of Oulu, Oulu, Finland, (2)Department of Child Psychiatry, Institute of Clinical Medicine, University of Oulu, Oulu, Finland, (3)Department of Child Psychiatry, Institute of Clinical Medicine, University and University Hospital of Oulu, Oulu, Finland, (4)University of Oulu, Oulu, Finland, (5)University and University Hospital of Oulu, Oulu, Finland
- 12:00 115 162.115 Impact of Dog-Assisted Therapy on Children with Autism Spectrum Disorders. R. Maxim¹, M. W. Baig², D. Zand³, A. C. Vercellone⁴, R. Grimmer⁵, M. Bultas⁶ and H. Matsuo⁷, (1)Saint Louis University School of Medicine, St. Louis, MO, (2)Pediatrics, SSM Cardinal Glennon Children's Medical Center, St. Louis, MO, (3)Saint Louis University, St. Louis, MO, (4)Department of Psychology, Saint Louis University, St. Louis, MO, (5)SSM Cardinal Glennon Children's Medical Center, St. Louis, MO, (6)Saint Louis University School of Nursing, St. Louis, MO, (7)Department of Sociology / Criminal Justice, Saint Louis University, St. Louis, MO
- 10:00 116 162.116 Behavioral and Physiological Changes Due to the Effects of Ambient Prism Lenses and Visuo-Motor Exercises in Autism. B. A. Dombroski¹, M. Kaplan², B. Kotsamanidis², S. M. Edelson³, G. Sokhadze⁴, E. M. Sokhadze⁴ and M. F. Casanova⁴, (1)Anatomical Sciences and Neurobiology, University of Louisville, Louisville, KY, (2)Center for Visual Management, Tarrytown, NY, (3)Autism Research Institute, San Diego, CA, (4)Psychiatry and Behavioral Sciences, University of Louisville, Louisville, KY
- 11:00 117 162.117 Vision Testing of Children and Adolescents with ASD: What Are We Missing? R. A. Coulter¹, Y. Tea², A. Bade², G. Fecho², D. Amster², E. Jenewein², J. Rodena², K. K. Lyons³, G. L. Mitchell⁴, N. Quint⁵, S. Dunbar⁵, M. Ricamato⁶, J. Trocchio⁷, B. H. Kabat⁸, C. Garcia² and I. Radik², (1)College of Optometry, Nova Southeastern University, Ft Lauderdale, FL, (2)College of Optometry, Nova Southeastern University, Fort Lauderdale, FL, (3)Private practice, Fort Lauderdale, FL, (4)Private Consulting Practice, Columbus, OH, (5)College of Health Care Sciences, Nova Southeastern University, Fort Lauderdale, FL, (6)Private Practice, West Chicago, IL, (7)CasaBlanca Academy, Hollywood, FL, (8)Private Consulting Practice, Plantation, FL
- 12:00 118 162.118 Overcoming Barriers to Intervention in Behaviorally-Based Treatments for Sleep Disorders. K. S. D'Eramo¹ and M. J. Palmieri, The Center for Children with Special Needs, Glastonbury, CT
- 10:00 119 162.119 Lack of Evidence of Effect of Risperidone on Core Autistic Symptoms Over Years of Time: Analysis of Data From a Longitudinal Study. H. M. Underwood, Y. Zhang, N. Marrus and J. N. Constantino^{*}, Washington University School of Medicine, Saint Louis, MO
- 11:00 120 162.120 The Effectiveness of a Robot-Intervention Compared to a Human-Trainer Intervention in Promoting Question Asking in Children with Autism Spectrum Disorders. B. Huskens¹ and R. Verschuur, Research & Development, Dr. Leo Kannerhuis, Doorwerth, Netherlands
- 12:00 121 162.121 The Use of Humanoid Robots As Co-Therapists in ABA Therapy for Children with Autism Spectrum Disorder. J. J. Diehl¹, C. R. Crowell², M. Villano², K. G. Wier^{2,3}, K. Tang², M. Van Ness², J. Flores², T. Freeman², E. A. Klinepeter², S. Matthews², S. L. Mazur² and N. M. Shea^{2,4}, (1)Center for Children and Families, University of Notre Dame, Notre Dame, IN, (2)University of Notre Dame, Notre Dame, IN, (3)Logan Center, South Bend, IN, (4)Syracuse University, Syracuse, NY
- 10:00 122 162.122 Click-East: Evaluating the Impact of an iPad App On Social Communicative Abilities in Young Children with Autism. S. Fletcher-Watson¹, S. Hammond², A. O'Hare³, H. Pain⁴, A. M. Petrou⁵ and H. McConachie⁶, (1)Moray House School of Education, University of Edinburgh, Edinburgh, United Kingdom, (2)School of Informatics, University of Edinburgh, Edinburgh, United Kingdom, (3)University of Edinburgh, Edinburgh, United Kingdom, (4)School of Informatics, University of Edinburgh, Edinburgh, Scotland, (5)Heriot-Watt University, East Lothian, United Kingdom, (6)Newcastle University, Newcastle upon Tyne, United Kingdom
- 11:00 123 162.123 Neurobehavioral Changes After Web-Based Socio-Emotional Remediation in Autism, 22q11.2 Deletion Syndrome, and Developmental Delay. B. Glaser¹, Office Medico-Pedagogique, University of Geneva Medical School, Geneva, Switzerland
- 12:00 124 162.124 Effects of Video-Based Group Instruction On Generalized Social Behavior of Adolescents with Severe Autism. M. C. MacFarland¹ and J. B. Plavnick², (1)Michigan State University, Livonia, MI, (2)Michigan State University, East Lansing, MI
- 10:00 125 162.125 Effects of Video Modeling Interventions On Social and Communication Skills of Children with Autism Spectrum Disorders: A Meta-Analysis. C. Qi¹, Y. L. Lin² and M. Collier², (1)University of New Mexico, Albuquerque, NM, (2)Educational Specialties, University of New Mexico, Albuquerque, NM
- 11:00 126 162.126 Self-Regulation of Amygdala Activation by Unhappy Emotion Using Real-Time fMRI Neurofeedback with Autistic Spectrum Disorder – A Pilot Study. T. Saito¹, T. Haji², T. Ito², T. Matsuda² and Y. Okubo¹, (1)Department of Neuropsychiatry, Nippon Medical School, Tokyo, Japan, (2)Brain Science Institute, Tamagawa University, Tokyo, Japan

Poster Sessions

163 - Infant Cognition and Behavior

9:00 - 13:00 - Banquet Hall

- 10:00 127 163.127 Maternal Communicative Style in Interaction with Infant Siblings of Children with ASD. J. Quigley¹ and S. McNally, Trinity College Dublin, Dublin, Ireland
- 11:00 128 163.128 The Emergence of Imitation from 9 to 12 Months in Younger Siblings of Children with Autistic Spectrum Disorders: Preliminary Findings From a Longitudinal Study. A. Boudreau¹, I. M. Smith², J. M. Keans¹, J. A. Brian³, S. E. Bryson⁴, N. Garon⁵, W. Roberts⁶, C. Roncadin⁷, P. Szatmari⁸ and L. Zwaigenbaum⁹, (1)Dalhousie University, Halifax, NS, Canada, (2)Dalhousie / IWK Health Centre, Halifax, NS, Canada, (3)Holland Bloorview / Sick Kids, Toronto, ON, Canada, (4)Dalhousie University / IWK Health Centre, Halifax, NS, Canada, (5)Mount Allison University, Sackville, NB, Canada, (6)University of Toronto, Toronto, ON, Canada, (7)Peel Children's Centre, Mississauga, ON, Canada, (8)Offord Centre for Child Studies & McMaster University, Hamilton, ON, Canada, (9)Glenrose Rehabilitation Hospital, University of Alberta, Edmonton, AB, Canada
- 12:00 129 163.129 Ethical Issues Related to Research on Siblings. B. Siegel¹, University of California, San Francisco, San Francisco, CA
- 10:00 130 163.130 Temperament in Infants at Heightened Risk for Autism. B. M. Winder^{1,2}, A. Wahed¹, L. Rescorla¹ and S. Paterson², (1)Department of Psychology, Bryn Mawr College, Bryn Mawr, PA, (2)Center for Autism Research, The Children's Hospital of Philadelphia, Philadelphia, PA
- 11:00 131 163.131 Coordinated Interpersonal Timing in 9-Month-Olds at High and Low Risk for Autism Spectrum Disorder and Their Mothers. J. B. Northrup¹ and J. M. Iverson, University of Pittsburgh, Pittsburgh, PA
- 12:00 132 163.132 Interactions Between Gaze Following and Disengagement At 7 and 13 Months in Infants At High Risk for Autism Spectrum Disorder. R. Bedford¹, T. Gliga², M. Elsabbagh³, A. Pickles¹, J. Fernandes⁴, A. Senju⁵, T. Charman⁶, M. H. Johnson² and The BASIS Team⁷, (1)Institute of Psychiatry, London, United Kingdom, (2)Centre for Brain & Cognitive Development, Birkbeck, University of London, London, United Kingdom, (3)Centre for Brain and Cognitive Development, London, United Kingdom, (4)Birkbeck, University of London, UK, London, United Kingdom, (5)Birkbeck, University of London, London, United Kingdom, (6)Centre for Research in Autism & Education, Institute of Education, London, United Kingdom, (7)BASIS, London, United Kingdom
- 10:00 133 163.133 Tonic and Phasic Saccadic Reaction Time Differences in Infants At High Risk for ASD. E. J. Jones¹, S. Wass¹, T. Charman², M. H. Johnson³ and The BASIS Team¹, (1)Birkbeck, University of London, London, United Kingdom, (2)Centre for Research in Autism & Education, Institute of Education, London, United Kingdom, (3)Centre for Brain & Cognitive Development, Birkbeck, University of London, London, United Kingdom
- 11:00 134 163.134 Fixation Durations During Static Scene Viewing in 6 to 8-Month-Old, High-Risk Infants Relates to ADOS Scores At 36 Months. S. Wass¹, T. Gliga², E. J. Jones³, T. Charman⁴ and M. H. Johnson², (1)MRC CBU, University of Cambridge, Cambridge, United Kingdom, (2)Centre for Brain & Cognitive Development, Birkbeck, University of London, London, United Kingdom, (3)Birkbeck, University of London, London, United Kingdom, (4)Centre for Research in Autism & Education, Institute of Education, London, United Kingdom
- 12:00 135 163.135 Better Visual Search in Infants at Risk for ASD. T. Gliga¹, R. Bedford², T. Charman³ and M. H. Johnson¹, (1)Centre for Brain & Cognitive Development, Birkbeck, University of London, London, United Kingdom, (2)Institute of Psychiatry, London, United Kingdom, (3)Centre for Research in Autism & Education, Institute of Education, London, United Kingdom
- 10:00 136 163.136 Risk-Markers of Autism Spectrum Disorder in a Cohort of Newborn Infants. T. Farroni¹ and V. Di Gangi², (1)Developmental Psychology, University of Padua, Padua, Italy, (2)Developmental Psychology Department, University of Padua, Padova, Italy
- 11:00 137 163.137 Markovian Dynamics of Visual Scanning Behavior in Toddlers with ASD. G. Ramsay¹, D. Lin², W. Jones¹ and A. Klin¹, (1)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA, (2)Harvard-MIT Division of Health Sciences and Technology, Boston, MA
- 12:00 138 163.138 Measuring Callous-Unemotional Traits in Autism Spectrum Disorders. L. Roughan¹, D. H. Skuse² and W. Mandy³, (1)DCAMHS, Great Ormond Street Hospital NHS Foundation Trust, London, United Kingdom, (2)Behavioural and Brain Sciences Unit, Institute of Child Health, UCL, London, United Kingdom, (3)Division of Psychology and Language Sciences, Faculty of Brain Sciences, UCL, London, United Kingdom
- 10:00 139 163.139 Temperament in Children with Autism Ages 4 to 7: A Study Using the Inventory of Children's Individual Differences-Short Form. J. M. Campbell¹, B. Barger² and C. A. Simmons³, (1)University of Kentucky, Lexington, KY, (2)The University of Georgia, Athens, GA, (3)University of Georgia, Athens, GA
- 11:00 140 163.140 Are Early Neurophysiological Markers of ASD Syndrome-Specific? Preliminary Results From a Cross-Syndrome Study. D. D'Souza¹, H. Kyjnkova², M. H. Johnson¹, T. Gliga¹, E. Kushnerenko³, G. Scerif² and A. Kamiloff-Smith¹, (1)Centre for Brain & Cognitive Development, Birkbeck, University of London, London, United Kingdom, (2)Department of Experimental Psychology, University of Oxford, Oxford, United Kingdom, (3)Institute for Research in Child Development, University of East London, London, United Kingdom
- 12:00 141 163.141 Early Predictors of Empathy at School Age in Siblings of Children with ASD. T. Hutman¹ and M. Sigman², (1)UCLA Center for Autism Research and Treatment, Los Angeles, CA, (2)University of California, Los Angeles, Los Angeles, CA
- 10:00 142 163.142 Very Early Brainstem Function Together with Attention Regulation Relate to Later ASD in NICU Graduates: Replication and Extension. J. M. Gardner¹, I. L. Cohen², B. Z. Karmel¹, H. T. T. Phan¹, P. M. Kitterl¹, S. Parab³ and A. Barone³, (1)Infant Development, NYS Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (2)Psychology, NYS Institute for Basic Research in Developmental Disabilities, Staten Island, NY, (3)Pediatrics, Richmond University Medical Center, Staten Island, NY
- 11:00 143 163.143 The Role of Attentional Disengagement on the Emergence of Joint Attention and Arousal Regulation: A Study of Infants at Risk for ASD. B. Keehn^{1,2}, J. B. Wagner^{1,2}, H. Tager-Flusberg³ and C. A. Nelson^{1,2}, (1)Harvard Medical School, Boston, MA, (2)Boston Children's Hospital, Boston, MA, (3)Boston University, Boston, MA
- 12:00 144 163.144 Dissociating Content-Influenced Changes from Maturational Changes in Oculomotor Function in Infants with Autism Spectrum Disorders. T. Tsang¹, W. Jones and A. Klin, Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA

10:00 145 163.145 The Ability to Integrate Audiovisual Speech at 8 Months of Age Is Associated with Later Receptive Language. E. Kushnarenko¹, H. Ribeiro², T. Gliga², P. Tomalski³, T. Charman⁴ and M. H. Johnson², (1)Institute for Research in Child Development, University of East London, London, United Kingdom, (2)Centre for Brain & Cognitive Development, Birkbeck, University of London, London, United Kingdom, (3)Faculty of Psychology, University of Warsaw, Warsaw, Poland, (4)Centre for Research in Autism & Education, Institute of Education, London, United Kingdom

11:00 153 164.153 Challenging Stereotypes: Sexual Functioning of Single Adults with High Functioning Autism Spectrum Disorder. S. Nichols¹, S. Byers² and S. Voyer², (1)ASPIRE Center for Learning and Development, Melville, NY, (2)Psychology, University of New Brunswick, Fredericton, NB, Canada

12:00 154 164.154 Cognitive-Behavioral Differences in Children with Autism Spectrum Disorder Predicted by Sex-Age. T. A. Knaus¹, J. L. Kamps² and A. L. Foundas³, (1)Neurology, Louisiana State University Health Sciences Center - N.O., New Orleans, LA, (2)Psychology, Children's Hospital, New Orleans, LA, (3)Cell Biology and Anatomy, Louisiana State University Health Sciences Center - N.O., New Orleans, LA

Poster Sessions

164 - Cognition and Behavior III

9:00 - 13:00 - Banquet Hall

10:00 146 164.146 A Meta-Analysis Examining the Academic Achievement of Individuals with ASD in Reading, Writing and Mathematics. H. M. Brown¹, J. Oram Cardy², L. M. Archibald², A. Johnson¹ and J. Volden³, (1)Health and Rehabilitation Sciences, Western University, London, ON, Canada, (2)Communication Sciences and Disorders, Western University, Canada, London, ON, Canada, (3)University of Alberta, Edmonton, AB, Canada

11:00 147 164.147 Are Patterns of Aberrant Behaviors Associated to Developmental Trajectories of Adolescents with Autism Spectrum Disorders (ASD)? C. Rattaz¹, C. Michelon¹, C. Baeza-Velasco and A. Baghdadli, Autism Resources Center, CHRU Montpellier and Laboratory Epsilon, Montpellier, France

12:00 148 164.148 Age Related Changes in Conjunctive Visual Search Among Children with and without ASD. K. Armstrong¹ and G. Iarocci², (1)Simon Fraser University, Burnaby, BC, Canada, (2)Department of Psychology, Simon Fraser University, Burnaby, BC, Canada

10:00 149 164.149 Age Related Differences of Executive Functions in Children and Adolescents in the Autism Spectrum. S. van den Bergh¹, A. M. Scheeren², S. Begeer³, H. M. Koot² and H. M. Geurts⁴, (1)Dr.Leo Kannerhuis, Doorwerth, Netherlands, (2)VU University Amsterdam, Amsterdam, Netherlands, (3)Developmental Psychology, VU University Amsterdam, Amsterdam, Netherlands, (4)Department of Psychology, Brain and Cognition, University of Amsterdam, Amsterdam, NH, Netherlands

11:00 150 164.150 Analysis of Gestural Production During Mother-Child Interaction in Children with Autism Spectrum Disorders, Down Syndrome and Typical Development. M. Mastrogioseppe¹, O. Capirci², S. Cuva¹ and P. Venuti¹, (1)University of Trento, Trento, Italy, (2)Institute of Cognitive Sciences and Technologies (ISTC), National Research Council of Italy (CNR), Rome, Italy

12:00 151 164.151 Autistic Features Observed in Young People Who Have Experienced Early Maltreatment - Examining 'Quasi-Autism'. V. Livermore-Hardy¹, D. H. Skuse², M. DeJong³, L. Brown-Wright³, M. Murin⁴ and W. Mandy⁵, (1)4th Floor, Frontage Building, Great Ormond Street Hospital, London, United Kingdom, (2)Behavioural and Brain Sciences Unit, Institute of Child Health, UCL, London, United Kingdom, (3)Child and Adolescent Mental Health, Great Ormond Street Hospital, London, United Kingdom, (4)National Centre for High Functioning Autism, Department of Child & Adolescent Mental Health (DCAMH), Great Ormond Street Hospital for Children NHS Foundation Trust, London, United Kingdom, (5)Division of Psychology and Language Sciences, Faculty of Brain Sciences, UCL, London, United Kingdom

10:00 152 164.152 Bullying Involvement and Social Information Processing of Dynamic Social Scenes in Children and Adolescents with ASD. J. H. Schroeder¹, J. M. Bebko¹, M. C. Cappadocia and D. Pepler, Department of Psychology, York University, Toronto, ON, Canada

10:00 155 164.155 Comparing Grammatical Items in Spontaneous Speech Vs. Parent Report in ASD. A. T. Tovar¹, C. A. Navarro-Torres², M. Jyotishi³, A. Goodwin³, D. A. Fein⁴ and L. Naigles³, (1)University of Connecticut, Wethersfield, CT, (2)University of Connecticut, Ashford, CT, (3)University of Connecticut, Storrs, CT, (4)Clinical Psychology, University of Connecticut, Storrs, CT

11:00 156 164.156 Defining the Intellectual Profile of Elderly Persons with an Autism Spectrum Disorder. L. Ham¹, A. A. Spek², R. Wiltink³ and F. Geven³, (1)GGZ Eindhoven Adult Autism Center, Eindhoven, Netherlands, (2)Mental Health Institution Eindhoven, Eindhoven, Netherlands, (3)GGZ Eindhoven Center Elderly Care Autism, Eindhoven, Netherlands

12:00 157 164.157 Developmental Aspects of Affective Decision-Making in ASD. D. Bjornn¹, S. Wigham², L. Gray³, P. D. Chamberlain⁴, K. Ames¹, S. White⁵, T. Newton⁶, M. South⁶ and J. Rodgers⁷, (1)Psychological Sciences, Brigham Young University, Provo, UT, (2)Newcastle University Institute of Health and Society, Newcastle upon Tyne, NE1 4LP, United Kingdom, (3)Institute of Neuroscience, Newcastle University, Newcastle upon Tyne, United Kingdom, (4)Neuroscience Center, Brigham Young University, Provo, UT, (5)Center for Neuroscience, University of California, Davis, Davis, CA, (6)Brigham Young University, Provo, UT, (7)Institute of Neuroscience, School of Medical Sciences, Newcastle University, Newcastle upon Tyne, United Kingdom

10:00 158 164.158 Feasibility of Experience Sampling Methodology in Understanding Everyday Experience in Autism Spectrum Disorders: A Pilot Study. Y. W. Chen¹, A. C. Bundy¹, R. Cordier² and S. L. Einfeld³, (1)Faculty of Health Sciences, University of Sydney, Lidcombe NSW, Australia, (2)School of Public Health, Tropical Medicine and Rehabilitation Sciences, James Cook University, Townsville QLD, Australia, (3)Faculty of Health Sciences and Brain and Mind Research Institute, University of Sydney, Camperdown NSW, Australia

11:00 159 164.159 Food Selectivity, Weight Status, and Caregiver Feeding Practices in Children with Autism Spectrum Disorders. T. V. Kral¹, M. C. Souders², W. T. Eriksen¹, A. M. Remiker³, V. H. Tompkins¹ and J. A. Pinto-Martin¹, (1)University of Pennsylvania School of Nursing, Philadelphia, PA, (2)University of Pennsylvania School of Nursing / The Children's Hospital of Philadelphia, Philadelphia, PA, (3)University of Pennsylvania Perelman School of Medicine, Philadelphia, PA

12:00 160 164.160 Intelligence Profiles in Children and Adolescents with 22q11 Deletion Syndrome with and without Psychopathology. E. Hidding¹, H. Swaab², J. A. Vorstman³, H. van Engeland⁴ and L. M. J. de Sonneville⁵, (1)Department of Clinical Child and Adolescent Studies, Leiden University, Leiden, Netherlands, (2)Department of Clinical Child and Adolescent Studies, Leiden University, Faculty of Social Sciences, Leiden, Netherlands, (3)Psychiatry, Brain Centre Rudolf Magnus, Utrecht, Netherlands, (4)Department of Child and Adolescent Psychiatry, Rudolf Magnus Institute of Neuroscience, University Medical Center Utrecht, Utrecht, Netherlands, (5)Leiden Institute for Brain and Cognition, Leiden University, Leiden, Netherlands

- 10:00 161 164.161 Is There an Optimal Developmental Path in Autism? M. Dawson¹ and I. Soulières², (1)Service de Recherche, Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada, (2)University of Quebec in Montreal, Montreal, QC, Canada
- 11:00 162 164.162 Longitudinal Changes in Processing Speed and Corresponding White Matter Microstructure in Autism Spectrum Disorder (ASD). B. G. Travers¹, E. D. Bigler², N. Adluru¹, D. P. Tromp¹, C. Ennis¹, M. Prigge³, A. L. Froehlich⁴, N. Lange⁵, A. L. Alexander⁶ and J. E. Lainhart⁷, (1)Waisman Center, University of Wisconsin, Madison, WI, (2)Brigham Young University, Provo, UT, (3)University of Utah, Salt Lake City, UT, (4)Psychiatry, University of Utah, Salt Lake City, UT, (5)McLean Hospital, Belmont, MA, (6)University of Wisconsin, Madison, WI, (7)Psychiatry, Waisman Center, University of Wisconsin-Madison, Madison, WI
- 12:00 163 164.163 Mapping Development Change in Hypersensitivity to Pitch in Children, Adolescents, and Adults with ASD. P. Heaton¹ and J. Mayer^{2,3}, (1)Psychology, Goldsmiths College, University of London, London, United Kingdom, (2)Psychology, University of Roehampton, London, United Kingdom, (3)Goldsmiths College, University of London, London, United Kingdom
- 10:00 164 164.164 Perspective Taking Abilities in Aging Adults with ASD: An Exploratory Study. A. G. Lever¹ and H. M. Geurts², (1)Department of Psychology, Brain and Cognition, University of Amsterdam, Amsterdam, Netherlands, (2)Department of Psychology, Brain and Cognition, University of Amsterdam, Amsterdam, NH, Netherlands
- 11:00 165 164.165 Predictive Value of Social Communicative Abilities in Toddlers Screening Positive for ASD towards Outcome at Age 7-8 years. J. Vermeirsch¹, M. Dereu² and H. Roeyers², (1)Experimental Clinical & Health Psychology - Developmental Disorders, Ghent University, Ghent, Belgium, (2)Ghent University, Ghent, Belgium
- 12:00 166 164.166 Reading and Oral Language Comprehension in Students with ASD. N. McIntyre¹, P. C. Mundy², M. Solomon³, N. V. Hatt⁴, M. Gwaltney⁵, W. Jarrold⁶ and K. Kim⁷, (1)U.C. Davis, Davis, CA, (2)University of California at Davis, Sacramento, CA, (3)Department of Psychiatry, M.I.N.D. Institute, Imaging Research Center, Sacramento, CA, (4)University of California at Davis, Davis, CA, (5)University of California Davis, Learning & Mind Sciences, Sacramento, CA, (6)UC Davis, Davis, CA, (7)M.I.N.D. Institute, UC Davis, Davis, CA
- 10:00 167 164.167 Restricted and Repetitive Behaviours in Autism and Typical Development: Group Differences and Associations with Development Over Time. C. Harrop¹, H. McConachie², R. Emsley¹, K. Leadbitter¹, J. Green¹ and P. Consortium¹, (1)University of Manchester, Manchester, United Kingdom, (2)Newcastle University, Newcastle upon Tyne, United Kingdom
- 11:00 168 164.168 Savant Skills in a Large Autistic Sample: Prevalence and Relation with Age and Intelligence. P. Jelenic¹ and L. Mottron, Service de Recherche, Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM), Montreal, QC, Canada
- 12:00 169 164.169 Self-Perception of Competencies in Adolescents with Attention-Deficit Hyperactivity Disorder and Autism Spectrum Disorders. R. Furlano¹, E. A. Kelley, E. Ladwig, L. Hall and D. Wilson, Queen's University, Kingston, ON, Canada
- 10:00 170 164.170 Sensory Processing Disorders Patterns in Children with Autism Spectrum Disorders. M. N. Simard^{1,2}, M. Couture³, E. Gisel⁴, E. Fombonne⁵ and C. Kirby⁶, (1)CHUQ Research Center, Quebec, QC, Canada, (2)Université de Montréal, Montréal, QC, Canada, (3)Axe Mère-Enfant, Centre de Recherche Etienne LeBel, Sherbrooke, QC, Canada, (4)McGill University, Montreal, QC, Canada, (5)Montreal Children's Hospital, Montreal, QC, Canada, (6)Université Laval, Québec, QC, Canada
- 11:00 171 164.171 Synaesthesia in Adults with Autism. D. Johnson¹, C. Allison and S. Baron-Cohen, Autism Research Centre, Department of Psychiatry, University of Cambridge, Cambridge, United Kingdom
- 12:00 172 164.172 The Impact of Problem Behavior on Language Outcomes for Preschool-Aged Children with ASD. A. Gutierrez¹, J. M. Weber¹, D. Coman², A. V. Maharaj¹, D. Bagner¹, M. Alessandri³, B. Boyd⁴, K. Hume⁵, L. D. Johnson⁶, L. A. Sperry⁷ and S. Odom⁸, (1)Psychology, Florida International University, Miami, FL, (2)University of Miami, Miami, FL, (3)Psychology and Pediatrics, University of Miami, Coral Gables, FL, (4)University of North Carolina at Chapel Hill, Chapel Hill, NC, (5)University of North Carolina, Chapel Hill, Chapel Hill, NC, (6)University of Minnesota, Golden Valley, MN, (7)Griffith University / University of Sunshine Coast Australia, Battery Hill, Australia, (8)University of North Carolina, Chapel Hill, NC
- 10:00 ♦173 164.173 Dynamic Visual Search Strategies During Natural Viewing in 12-24 Month-Olds with Autism. S. I. Habayeb¹, W. Jones and A. Klin, Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA
- 11:00 ♦174 164.174 Use of the NAO Robot to Train Kids with Autism Spectrum Disorders. Y. Wang¹, X. Li¹, Y. Zhao² and C. Wang³, (1)National Key Lab. of Cognitive Neuroscience and Learning, Beijing Normal University, Beijing, China, (2)Institute of Electronic Engineering, Yan Shan University, Qinhuangdao, China, (3)Center for Behavioural Science, School of Medicine, Nankai University, Tianjin, China
- 12:00 ♦175 164.175 Can Mindfulness-Based Therapy Reduce Executive Impairment in Adults with Autism Spectrum Disorders (ASD)? A. A. Spek¹ and N. van Ham², (1)Mental Health Institution Eindhoven, Eindhoven, Netherlands, (2)GGZ Eindhoven, Eindhoven, Netherlands
- 10:00 ♦176 164.176 Internet-Based Support and Coaching for Adolescents and Young Adults with Neuropsychiatric Disorders – A Follow-Up of an Intervention from an Organizational Studies Perspective. N. M. Gillberg¹ and E. Wentz², (1)Institute of Neuroscience and Physiology, Gillberg Neuropsychiatry Centre, Gothenburg, Sweden, (2)Gillberg Neuropsychiatry Centre, Institute of Neuroscience and Physiology, Gothenburg, Sweden
- 11:00 ♦177 164.177 Kata Techniques Training Consistently Decreases Stereotypy in Children with Autism Spectrum Disorders. F. Bahrami¹, A. Movahedi, M. Marandi and A. Abedi, University of Isfahan, Isfahan, Iran
- 12:00 ♦178 164.178 A Double Blind, Randomized Clinical Trial of Oxytocin Nasal Spray to Improve Social Interaction and Reduce Repetitive Behaviours in Young Children Diagnosed with Autism Spectrum Disorders. C. Yatawara¹, S. L. Einfeld² and A. J. Guastella³, (1)Brain and Mind Research Institute, Camperdown, Australia, (2)Faculty of Health Sciences and Brain and Mind Research Institute, University of Sydney, Camperdown NSW, Australia, (3)Brain & Mind Research Institute, Sydney, Australia

14:00-16:00	Educational Symposia – Auditorium Parent Training and Parent Mediated Intervention in Diverse Contexts		
14:00-16:00	Oral Session – Chamber Hall Treatments: Medical and Behavioral Trials and Mechanisms	Oral Session – Meeting Room 1 & 2 Cognition: Perception, Memory, & Emotion	Oral Session – Meeting Room 3 Novel Perspectives On the ASD Phenotype

Educational Symposium
165 - Parent Training and Parent Mediated Intervention in Diverse Contexts
 14:00 - 16:00 - Auditorium

Session Chair: M. Yeargin-Allsopp; CDC

As awareness of ASD and diagnosis continues to grow globally, an unprecedented number of parents are in search of services for their children. In the absence of formal teacher training programs and experienced professionals, let alone evidence-based programs, parent training and parent mediated intervention play a critically important role in intervention for families who may otherwise have limited options. The basic components of parent-focused training often overlap, including the content covered, methods, and intended outcomes. However, the challenge is to either identify interventions or combine aspects of intervention that address local needs, have social validity, and are feasible in different settings — including in low and middle income countries (LMIC) and underresourced settings. In this symposium, we present approaches to parent training at three stages of development and from six diverse settings: exploration of parent needs in a remote part of Morocco; adaptation and implementation of responsive teaching and applied behavior analysis in Turkey, Poland, and Mexico; and evaluation of a model focused on parent empowerment and acceptance in India. Each presentation will outline the rationale behind the approach, structure of the program, and will discuss lessons learned that inform parent training across a broad context and with diverse populations.

- 14:00 ▶ 165.001 Working with Parents: A Pilot Project in Southern Morocco. M. V. de Jonge¹, S. Klok-van Reedt Dortland², S. Arbib³ and E. Stallen⁴, (1)Rudolf Magnus Institute of Neuroscience, University Medical Center Utrecht, Utrecht, UT, Netherlands, (2)School Cooperation, Ede, Netherlands, (3)Utrecht, Netherlands, (4)Psychology Practice, Utrecht, Netherlands
- 14:30 ❖165.002 Adopt or Adapt? Working with Parents to Facilitate Implementation of Evidence-Based Strategies in Turkey, Poland and Mexico. L. J. Hall¹ and O. Karaaslan², (1)San Diego State University, San Diego, CA, (2)Special Education, Marmara University, Istanbul, Turkey
- 15:00 ▶ 165.003 Evaluation of an Acceptance and Empowerment Parent Training Model: Evidence From India. T. C. Daley¹, N. Singhal², T. S. Weisner³, M. Barua² and R. S. Brezis⁴, (1)Westat, Durham, NC, (2)Action For Autism, New Delhi, India, (3)UCLA, Los Angeles, CA, (4)Psychiatry and Biobehavioral Sciences, UCLA, Los Angeles, CA
- 15:30 165.004 Discussant. A. Stahmer¹, Rady Children's Hospital, San Diego, San Diego, CA

Oral Sessions
166 - Novel Perspectives on the ASD Phenotype
 14:00 - 16:00 - Meeting Room 3

- 14:00 166.001 Towards a Core Outcome Set for Young Children with Autism Spectrum Disorder. H. McConachie¹, N. Livingstone², C. Morris³, B. Beresford⁴, A. S. Le Couteur⁵, P. Gringras⁶, D. A. Garland⁷, J. Parr⁸, G. Jones⁹, G. Macdonald² and

K. Williams¹⁰, (1)Royal Victoria Infirmary, University of Newcastle, Newcastle upon Tyne, United Kingdom, (2)Institute of Child Care Research, Queen's University Belfast, Belfast, United Kingdom, (3)Child Health Group (PenCRU), University of Exeter, Exeter, United Kingdom, (4)Social Policy Research Unit, University of York, York, United Kingdom, (5)Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom, (6)Kings College London, London, United Kingdom, (7)Resource Centre, National Autistic Society, Newcastle upon Tyne, United Kingdom, (8)Institute of Neuroscience, Newcastle University, Newcastle, United Kingdom, (9)Autism Centre for Education and Research, University of Birmingham, Birmingham, United Kingdom, (10)University of Melbourne and Royal Children's Hospital, Parkville, Australia

- 14:15 166.002 Linguistic Strengths and Weaknesses in Optimal Outcome Children with a History of Autism Spectrum Disorders. L. Naigles¹, J. Suh¹, I. M. Eigsti², E. A. Kelley³, A. Orinstein¹, K. E. Tyson¹, E. Troyb¹, M. Barton² and D. A. Fein⁴, (1)University of Connecticut, Storrs, CT, (2)Psychology, University of Connecticut, Storrs, CT, (3)Queen's University, Kingston, ON, Canada, (4)Clinical Psychology, University of Connecticut, Storrs, CT
- 14:30 166.003 Compromised Quality of Life in Autism Spectrum Disorders. A Case-Controlled, Long-Term Follow-Up Study, Comparing Young High-Functioning Adults with Autism Spectrum Disorders with Adults with Other Psychiatric Disorders Diagnosed in Childhood. H. Swaab^{1,2}, P. S. Barneveld¹, S. Fagel¹, H. van Engeland³ and L. M. J. de Sonneville^{1,2}, (1)Department of Clinical Child and Adolescent Studies, Leiden University, Faculty of Social Sciences, Leiden, Netherlands, (2)Leiden Institute for Brain and Cognition, Leiden University, Leiden, Netherlands, (3)Department of Child and Adolescent Psychiatry, Rudolf Magnus Institute of Neuroscience, University Medical Centre Utrecht, Utrecht, Netherlands
- 14:45 166.004 The Role of Language in Social Cognition Among Children with HFASD, LD, and Typ: Social Information Processing, Executive Function, and Theory of Mind. N. Bauminger¹, School of Education, Bar-Ilan University, Ramat-Gan, Israel
- 15:00 166.005 Making Sense of Repetitive Behaviours in Autism Spectrum Disorder: The Relevance of Intolerance of Uncertainty. J. Rodgers¹, S. Wigham², L. Gray¹, E. Honey³, M. H. Freeston⁴, S. R. Leekam⁵ and M. South⁶, (1)Institute of Neuroscience, Newcastle University, Newcastle upon Tyne, United Kingdom, (2)Newcastle University Institute of Health and Society, Newcastle upon Tyne, NE1 4LP, United Kingdom, (3)Newcastle University, Newcastle Upon Tyne, England, (4)Newcastle University, Newcastle, United Kingdom, (5)Wales Autism Research Centre, School of Psychology, Cardiff University, Cardiff, United Kingdom, (6)Psychological Sciences and Neuroscience Center, Brigham Young University, Provo, UT
- 15:15 166.006 ASD Is Characterised by Atypicalities in Emotion-Related Learning Processes: What Are the Implications? S. B. Gaigg¹ and D. M. Bowler, Autism Research Group, City University London, London, United Kingdom
- 15:30 166.007 Psychosocial Phenotype and Genesis of the Corpus Callosum. L. K. Paul¹, California State University, Fullerton, CA

WITHDRAWN

15:45 **166.008** Familiality of Social Responsiveness Scale Scores in the Nurses' Health Study II. K. Lyall^{1,2}, J. N. Constantino³, A. Ascherio², M. G. Weisskopf⁴ and S. L. Santangelo^{2,4,5}, (1)Public Health Sciences, University of California, Davis, Davis, CA, (2)Harvard School of Public Health, Boston, MA, (3)Washington University School of Medicine, Saint Louis, MO, (4)Psychiatry / Center for Human Genetic Research, Massachusetts General Hospital, Boston, MA, (5)Harvard Medical School, Boston, MA

15:45 **167.008** Extended Oxytocin Treatment of Children with Autistic Disorder. L. Sikich¹, T. C. Bethea², C. O. Alderman³, L. Hazzard⁴, C. A. Pedersen⁵, N. E. Connelly⁴, S. G. Gregory⁶ and J. L. Johnson⁷, (1)ASPIRE Research Program, UNC-CH, Chapel Hill, NC, (2)University of North Carolina, Burlington, NC, (3)ASPIRE, University of North Carolina at Chapel Hill, Chapel Hill, NC, (4)ASPIRE, Psychiatry, University of North Carolina at Chapel Hill, Chapel Hill, NC, (5)Department of Psychiatry, University of North Carolina School of Medicine, Chapel Hill, NC, (6)Center for Human Genetics, Medicine, Duke University, Durham, NC, (7)Psychiatry, University of North Carolina at Chapel Hill, Chapel Hill, NC

Oral Sessions

167 - Treatments: Medical and Behavioral Trials and Mechanisms

14:00 - 16:00 - Chamber Hall

- 14:00 **167.001** Effects of a Targeted Face-Processing Intervention on Visual Attention to Naturalistic Social Scenes. P. Lewis¹, J. M. Moriuchi^{1,2}, C. Klaiman¹, J. Wolf³, L. Herlihy⁴, W. Jones¹, A. Klin¹, J. W. Tanaka⁵ and R. T. Schultz², (1)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA, (2)Department of Psychology, Emory University, Atlanta, GA, (3)Yale Child Study Center, New Haven, CT, (4)Department of Psychology, University of Connecticut, Storrs, CT, (5)Psychology, University of Victoria, Victoria, BC, Canada, (6)Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, PA
- 14:15 **167.002** A Psychosexual Training Program for Adolescents with Autism Spectrum Disorder (ASD): The First Effects of the Tackling Teenage Training. K. Visser¹, L. P. Dekker², E. van der Vegt¹, F. Boudesteijn³, F. C. Verhulst², A. Maras¹ and K. Greaves-Lord², (1)Yulius Academy, Yulius, Rotterdam, Netherlands, (2)Department of Child & Adolescent Psychiatry / Psychology, Erasmus MC - Sophia's Childrens Hospital, Rotterdam, Netherlands, (3)Yulius Autism, Yulius, Dordrecht, Netherlands
- 14:30 **167.003** Minimally Verbal Children with ASD: Neural Mechanisms and a Novel Speech Intervention. C. Y. Wan¹, B. Scherrer², J. Chiew¹, J. L. Colet¹ and G. Schlaug³, (1)Neurology, Beth Israel Deaconess Medical Center and Harvard Medical School, Boston, MA, (2)Children's Hospital Boston, Boston, MA, (3)Beth Israel Deaconess Medical Center and Harvard Medical School, Boston, MA
- 14:45 **167.004** Neural Effects of Social Skills Groups for School-Aged Children with ASDs: A Randomized, Comparative Study. A. T. Wang¹, L. Soorya², D. B. Halpern¹, S. Soffes¹, M. Gorenstein¹ and J. D. Buxbaum¹, (1)Psychiatry, Mount Sinai School of Medicine, New York, NY, (2)Rush University, Chicago, IL
- 15:00 **167.005** Methylphenidate Effects On Hyperactivity in ASD Are Moderated by Monoaminergic Gene Variants. J. T. McCracken¹, M. G. Aman², L. Scahill³, L. E. Arnold², C. McDougle⁴, B. Vitiello⁵ and E. L. Nurni⁶, (1)Room 48-27, University of California, Los Angeles, Los Angeles, CA, (2)Ohio State University, Columbus, OH, (3)Yale University School of Medicine, New Haven, CT, (4)Indiana University School of Medicine, Indianapolis, IN, (5)National Institute of Mental Health, Bethesda, MD, (6)Psychiatry, UCLA Semel Institute, Los Angeles, CA
- 15:15 **167.006** Psychotropic Drug Use and CAM in ASD: Prevalence and Correlates in the Ohsu ATN Site. K. Senn¹, J. B. Roulet¹, L. Voltolina¹, D. A. Fair¹, A. D. Hagen¹, J. Nigg¹, L. Huang-Storms² and E. Fombonne³, (1)Oregon Health & Science University, Portland, OR, (2)CDRC, Oregon Health & Science University, Portland, OR, (3)Psychiatry, Oregon Health and Sciences University, Portland, OR
- 15:30 **167.007** An Internet-Based Randomized Controlled Trial of Omega-3 Fatty Acids for Hyperactivity in Children with ASD. S. Bent¹, R. L. Hendren¹, T. Zand², J. K. Law², F. Widjaja¹, J. E. Choi¹, J. Nestle² and P. A. Law², (1)University of California, San Francisco, San Francisco, CA, (2)Kennedy Krieger Institute, Baltimore, MD

Oral Sessions

168 - Cognition: Perception, Memory, and Emotion

14:00 - 16:00 - Meeting Room 1-2

- 14:00 **168.001** Sex Differences in Dynamic Visual Scanning Patterns in School-Age Children with Autism Spectrum Disorders. J. M. Moriuchi^{1,2}, A. Klin² and W. Jones², (1)Department of Psychology, Emory University, Atlanta, GA, (2)Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine, Atlanta, GA
- 14:15 **168.002** Perception of the Sound Induced Flash Illusion in Adolescents with Autism Spectrum Disorders. J. K. Siemann¹, R. A. Stevenson², B. C. Schneider³, H. E. Eberly³, T. Wojnaroski⁴, S. M. Camarata⁵ and M. T. Wallace¹, (1)Vanderbilt University, Nashville, TN, (2)Vanderbilt University Medical Center, Nashville, TN, (3)Vanderbilt Undergraduate Neuroscience Program, Nashville, TN, (4)Vanderbilt University, Thompsons Station, TN, (5)Vanderbilt University Kennedy Center, Nashville, TN
- 14:30 **168.003** Spatial Transformations of Bodies and Objects in Adults with Autism Spectrum Condition. A. Pearson¹, D. Ropar¹ and A. Hamilton, School of Psychology, University of Nottingham, Nottingham, United Kingdom
- 14:45 **168.004** Time-Based and Event-Based Prospective Memory in Autism Spectrum Disorder (ASD): The Roles of Theory of Mind, Executive Functioning, Time Perception, and "Future Thinking". D. M. Williams¹, C. Jarrold², S. E. Lind³ and J. Boucher⁴, (1)Durham University, Durham, United Kingdom, (2)University of Bristol, Bristol, United Kingdom, (3)Durham University, Durham City, County Durham, United Kingdom, (4)Autism Research Group, City University London, London, United Kingdom
- 15:00 **168.005** Recall of a Live and Personally Experienced Eyewitness Event by Adults with Autism Spectrum Disorder (ASD). K. L. Maras¹, A. Memon², D. M. Bowler³ and A. Lambrechts³, (1)Psychology, University of Bath, Bath, United Kingdom, (2)Psychology, Royal Holloway, University of London, Surrey, United Kingdom, (3)Autism Research Group, City University London, London, United Kingdom
- 15:15 **168.006** Normative Reactivity to the Emotions of Familiar People in Young Children with Autism Spectrum Disorder. H. J. Nuske¹, G. Vivanti¹, K. Hudry¹ and C. Dissanayake, Olga Tennison Autism Research Centre, School of Psychological Science, La Trobe University, Bundoora, Australia
- 15:30 **168.007** Finding a Face in the Crowd: Developmental Change of Sensitivity to Threatening Faces in Children with Autism Spectrum Disorders. T. Isomura¹ and N. Masataka, Primate Research Institute, Kyoto University, Inuyama, Aichi, Japan
- 15:45 **168.008** Perceptual Processing of Motion and Emotion in Low-Functioning Autism. B. HAN^{1,2}, C. Tijus¹ and J. Nadel², (1)Psychology, EA 4004 Lab CHART / LUTIN, Paris-8 University, Saint-Denis Cedex 02, France, (2)CNRS USR 3246, Centre Emotion, La Salpêtrière Hospital, Paris, France

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
A					
Aagten-Murphy, D. University of Florence	David.Aagtenmurphy@gmail.com	126.045	Al Tassan, N. King Faisal Specialist Hospital and Research Center	naltassan@kfsshr.edu.sa	127.075
Abbacchi, A. Autism Speaks	Anna.Abbacchi@autismspeaks.org	107.092	al-Adwai, S. Sultan Qaboos University	adawi@squ.edu.om	106.044, 116.098, 162.110
Abdallah, M. W. W. Department of Psychiatry and Psychotherapy, Rostock University Hospital, Faculty of Medicine, University of Rostock	morsi.abdallah@med.uni-rostock.de	106.050	Al-Farsi, O. Ministry of Health	omaralfarsi24102@gmail.com	106.044
Abdelsayed, S. The Redpath Centre	sally.abdelsayed@gmail.com	160.037	Al-Farsi, Y. M. Sultan Qaboos University	ymfarsi@gmail.com	106.044, 162.110
Abdullah, M. M. M. University of California, Irvine	maryam.abdullah@uci.edu	161.092	Al-Khaduri, M. M. Sultan Qaboos University	mahak@squ.edu.om	106.044, 116.098, 162.110
Abedi, A. University of Isfahan	a.abedi@edu.ui.ac.ir	164.177	Al-Kindi, N. M. Sultan Qaboos University	nkindy@hotmail.com	162.110
Abellán, R. University of Valencia	Raquel.Abellan@robotica.uv.es	128.115	Al-Said, M. F. Sultan Qaboos University	monafahad@squ.edu.om	116.098
Abildskov, T. Brigham Young University	tracya@cortex.byu.edu	115.046, 115.073	Al-Shafae, M. Sultan Qaboos University	shafae4@omantel.net.om	106.044, 116.098, 162.110
Abowd, G. D. Georgia Institute of Technology	abowd@gatech.edu	109.004	Al-Sharbaty, M. Sultan Qaboos University	alsharbaty@gmail.com	106.044, 116.098, 162.110
Abrams, D. N. Georgia State University	dabrams1@student.gsu.edu	160.020	Albores-Gallo, L. Hospital Psiquiátrico Infantil	lilialbores@gmail.com	106.068
Accardi, C. The Redpath Centre	claudia.accardi@redpathcentre.ca	142.097	Alderman, C. O. University of North Carolina at Chapel Hill	cheryl_alderman@med.unc.edu	167.008
Adachi, J. Hokkaido University of Education	jun.adachi.e668@gmail.com	158.001	ALDhalaan, H. M. King Faisal Specialist Hospital and Research Center	hdhalaan@kfsshr.edu.sa	127.075
Adams, A. University of Cambridge	ama55@cam.ac.uk	128.103	Aldosari, M. Mercy Pediatric Neurology and Psychiatry Center	maldosari@mercydesmoines.org	127.075
Adams, B. Curtin University	b.adams@curtin.edu.au	128.117	Aldred, C. R. University of Manchester	craldred@tiscali.co.uk	117.147
Adams, M. L. Campbell University College Pharmacy and Health Sciences	adamsm@campbell.edu	106.057	Aldridge, M. UTD	aldridge@utdallas.edu	106.038
Adamson, L. B. Georgia State University	ladamson@gsu.edu	109.003, 160.020	Alessandri, M. University of Miami	malessandri@miami.edu	117.152, 117.174, 124.029, 143.127, 164.172
Adi, A. H. King Faisal Specialist Hospital and Research Center	ahmadadi1989@gmail.com	127.075	Alexander, A. L. University of Wisconsin	alalexander2@wisc.edu	112.001, 115.046, 115.056, 115.073, 164.162
Adkins, K. W. Vanderbilt University	karen.adkins@Vanderbilt.edu	142.104	Alexander, K. C. Ivymount School	kt.c.alexander@gmail.com	130.141, 130.164, 157.001
Adluru, N. University of Wisconsin	adluru@wisc.edu	164.162	Alfarsi, Y. M. Sultan Qaboos University	ymfarsi@squ.edu.om	116.098
Adolphs, R. Caltech	radolphs@hss.caltech.edu	137.023	Alirol, S. Inserm UMR930	servane.alirol@gmail.com	120.007
Aglioti, S. M. Sapienza Università di Roma, Fondazione Santa Lucia	salvatoremaria.aglioti@uniroma1.it	160.029	Allen, A. Rush University Medical Center	adelaide_allen@rush.edu	117.155
Agster, K. L. University of North Carolina School of Medicine, University of North Carolina School of Medicine	kara_agster@med.unc.edu	105.021	Allen, P. D. University of Rochester Medical Center, University of Rochester Medical Center	Paul_Allen@URMC.Rochester.edu	123.018, 126.047
Ahituv, N. Institute for Human Genetics, UCSF	nadav.ahituv@ucsf.edu	105.019	Allerton, L. University of Wisconsin-Madison	allerton@wisc.edu	106.032
Ahmadi, A. Hartford Hospital	Aahmad@harthosp.org	115.068	Allison, C. University of Cambridge	cla29@cam.ac.uk	102.008, 107.089, 137.024, 137.030, 164.171
Ahmed, A. A. Yale University	alex.ahmed@yale.edu	108.141	Almeida, C. C. C. PIN - Progresso Infantil	carlacintraoalmeida@gmail.com	107.106
Aims, M. King's College London, Institute of Psychiatry	project.aims3@kcl.ac.uk	108.146, 156.001	Almeida, J. Hospital Pediátrico Carmona da Mota (HP) – Centro Hospitalar e Universitário de Coimbra (CHUC)	joanaalmeida@chc.min-saude.pt	140.041, 154.006, 160.042, 162.104
Aitken, A. University of California San Francisco		126.057	Almirall, D. University of Michigan	daniel.almirall@gmail.com	102.002
Akechi, H. Japan Society for the Promotion of Science, Tokyo Denki University	akechi@darwin.c.u-tokyo.ac.jp	141.049	Aloi, J. University of North Carolina at Chapel Hill	aloijm@gmail.com	108.130
Akey, J. University of Washington	akeyj@uw.edu	155.008	Alonim, H. A. A. The Mifne Center, Bar-Ilan University	info@mifne-autism.com	107.085
Akshoomoff, N. University of California, San Diego, Rady Children's Hospital	natacha@ucsd.edu	116.100, 155.006	Alonso, A. F. UPR School of Public Health	annie.alonso@upr.edu	105.015
			Alshaban, F. Shafallah Medical Genetics Center	fouad.alshaban@gmail.com	106.070

Abstract #s in bold indicate the presenting author

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Altena, F. Utrecht University	F092373@uu.nl	126.053	André-Leroux, G. Institut Pasteur CNRS URA UMR3528	gandre@pasteur.fr	127.070
Altgassen, M. Technische Universitaet Dresden, Radboud University	altgassen@psychologie.tu-dresden.de	127.086, 144.160	Andreozzi, L. Women & Infants Hospital	landreozzi@wihri.org	117.167
Altschuler, T. S. The Sheryl and Daniel R. Tishman Cognitive Neurophysiology Laboratory, Albert Einstein College of Medicine	ursated@hotmail.com	122.004	Andres, C. Inserm UMR930, Centre Hospitalier Regional Universitaire	andres@med.univ-tours.fr	120.007
Altschuler, T. S. The Graduate Center - City University of New York, The Sheryl and Daniel R. Tishman Cognitive Neurophysiology Laboratory, Albert Einstein College of Medicine	UrsaTed@hotmail.com	123.012	Angkustsiri, K. UC Davis M.I.N.D. Institute, UC Davis Medical Center	kathleen.angkustsiri@ucdmc.ucdavis.edu	106.045, 108.169
Alvares, G. University of Sydney	autismcares@mail.med.usyd.edu.au	162.101	Angley, M. T. T. University of South Australia	manya@marac.com.au	135.004
Aman, M. G. Ohio State University	Michael.Aman@osumc.edu	161.065, 161.077, 167.005	Angley, M. T. Flinders University of South Australia	manya.angley@unisa.edu.au	117.163
Amaral, D. G. M.I.N.D. Institute; University of California at Davis	dgamaral@ucdavis.edu	108.169, 114.036, 114.037, 127.079, 156.003	Anguera, J. A. A. University of California San Francisco	joaquin.anguera@ucsf.edu	126.057
Amat, C. Catalonian Asperger's Association	cta.catalunya@gmail.com	117.115	Ankenman, K. University of Washington	ankenk@u.washington.edu	155.008
Amati, F. A. Sr. University of Valencia	amatifabian@yahoo.com.ar	128.115	Antar, C. Inserm UMR930, Centre Hospitalier Regional Universitaire	catherine.antar@sfr.fr	120.007
Ames, C. King's College London	catherine.ames@kcl.ac.uk	107.087	Antezena, L. National Institute of Mental Health	antezenal@mail.nih.gov	115.060
Ames, K. Brigham Young University	kenzie_ames@hotmail.com	164.157	Anthony, B. J. J. Georgetown University	bjj28@georgetown.edu	113.010
Amestoy, A. CH Charles Perrens	amestoyanouck@gmail.com	126.044	Anthony, L. G. Children's National Medical Center	lanthony@childrensnational.org	116.093, 130.141, 130.164, 144.159, 157.001
Amiet, C. Groupe Hospitalier Pitié-Salpêtrière, APHP, IntegraGen SA	claire.amiet@psl.aphp.fr	107.086, 160.015	Antonelli, C. Careggi University Hospital	c.antonelli@katamail.com	117.151
Amsellem, F. Hôpital Robert Debré	frederiqueamsellem@gmail.com	115.074	Antovich, A. D. University of California, San Francisco	ashley.antovich@ucsf.edu	108.156
Amster, D. Nova Southeastern University	amster@nova.edu	162.117	Apicella, F. University of Pisa-Stella Maris Scientific Institute	fabio.apicella@inpe.unipi.it	107.114, 107.118, 142.102
Ana Aguiar, A. Centro de Educação e Terapia	anaguiar@gmail.com	158.005	Aranbarri, A. University of the Basque Country (UPV/EHU), BioDonostia Health Research Institute	aritz.aranbarri@ehu.es	106.072
Anagnostou, E. University of Toronto	eanagnostou@hollandbloorview.ca	108.154, 115.070, 115.072, 115.075, 129.133, 129.135, 149.001, 162.102	Arango, C. Child and Adolescent Psychiatry Department, Hospital General Universitario Gregorio Marañón. Instituto de Investigación Sanitaria Gregorio Marañón. IISGM. CIBERSAM	carango@mce.hggm.es	116.104, 128.114
Anaki, D. Bar-Ilan University	david.anaki@biu.ac.il	144.152	Araujo Filho, G. Federal University of São Paulo	filho.gerardo@gmail.com	106.052
Anastassova, M. CEA List	margarita.anastassova@cea.fr	128.101	Arbib, S.		165.001
Anckarsäter, H. University of Gothenburg	Henrik.Anckarsater@neuro.gu.se	115.043, 121.007, 144.142	Archambault, C. Perceptual Neuroscience Laboratory for Autism & Development (PNLab)	catherine.archambault@mail.mcgill.ca	126.055
Andanson, J. CHU de Toulouse	andanson.j@chu-toulouse.fr	130.139, 130.175	Archibald, L. M. Western University, Canada	larchiba@uwo.ca	164.146
Anderson, C. Towson University	andersonco@kenedykrieger.org	116.089	Ardel, C. M. Stanford University	csmich@stanford.edu	143.119
Anderson, D. K. University of Michigan	debcarl@umich.edu	107.075	Ardjomand-Hessabi, M. The University of Texas Health Science Center at Houston	Manouchehr.A.Hessabi@uth.tmc.edu	104.005
Anderson, J. S. University of Utah	andersonjeffs@gmail.com	115.056	Armstrong, E. Texas Woman's University	EArmstrong@mail.twu.edu	106.038
Anderson, L. C. C. Yale Child Study Center	laura.anderson@yale.edu	108.133, 129.129	Armstrong, K. Simon Fraser University	kimberly_armstrong@sfu.ca	164.148
Anderson, M. Impact Assessment, Inc.	meredith.anderson@cdph.ca.gov	106.060	Arnold, L. E. Ohio State University	arnold.6@embarqmail.com	167.005
Anderson, S. Institute of Child Health, UCL	s.anderson@ucl.ac.uk	112.008, 113.004, 116.083, 130.146	Arora, N. K. K. The INCLIN Trust International	nkarora@inclentrust.org	107.124, 107.125, 111.002, 158.004
Anderson, V. Royal Children's Hospital	vaa@unimelb.edu.au	160.027			
Andersson, F. INSERM U930, Université François Rabelais	frederic.andersson@univ-tours.fr	108.147			
Andiarena, A. University of the Basque Country (UPV/EHU), BioDonostia Health Research Institute	ainara_andiarena@ehu.es	106.072			

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Arrode-Bruses, G. Universite Joseph Fourier	geraldine.arrodebruses@sfr.fr	120.008	B		
Artru, A. A. University of Washington	artruaa@u.washington.edu	115.050	Babikian, T. UCLA	TBabikian@mednet.ucla.edu	123.014
Aryee, M. Massachusetts General Hospital	martin.aryee@gmail.com	107.082	Babineau, B. San Francisco School of Medicine	brookieford@gmail.com	105.006
Ascherio, A. Harvard School of Public Health	aascheri@hsph.harvard.edu	106.065, 119.001, 166.008	Bada, H. University of Kentucky College of Medicine	henrietta.bada@uky.edu	117.170
Asghar, S. J. Vanderbilt University	asgharsheilaj@uams.edu	142.109	Bade, A. Nova Southeastern University	abade@nova.edu	162.117
Asherson, P. Institute of Psychiatry, King's College London	philip.asherson@kcl.ac.uk	132.003, 161.088	Baduel, S. University of Toulouse	baduel@univ-tlse2.fr	127.067, 132.004
Ashwin, C. University of Bath	c.ashwin@bath.ac.uk	141.086, 144.139, 144.168	Baeza-Velasco, C. Autism Resources Center, CHRU Montpellier and Laboratory Epsilon	baezacarolina@yahoo.com	164.147
Ashwood, K. L. Institute of Psychiatry, King's College London	karen.1.ashwood@kcl.ac.uk	161.088	Baghaee, A. Oregon Health & Science University	baghaee@ohsu.edu	132.006
Ashwood, P. The M.I.N.D. Institute, University of California, Davis	pashwood@ucdavis.edu	101.004, 105.006, 135.005, 162.103	Baghdadli, A. Autism Resources Center, CHRU Montpellier and Laboratory Epsilon	a-baghdadli@chu-montpellier.fr	161.056, 164.147
Askenazy, F. Child and Adolescent Psychiatry Unit	florence.askenazy@lenval.com	128.101	Bagner, D. Florida International University	dbagner@fiu.edu	164.172
Assaf, M. Institute of Living, Hartford Hospital/Yale University	massaf@harthosp.org	115.068	Bagrodia, R. The Help Group - UCLA Autism Research Alliance	rb477@cornell.edu	106.069
Assis, Z. A. Jr. Shri Sathya Sai Institute of Higher Medical Sciences	drzarinaaziz@gmail.com	115.047	Baheretibeb, Y. Addis Ababa University	yonasbaheretibeb@yahoo.com	113.008
Atick, J. University of Miami	j.atick@umiami.edu	124.029	Bahlo, M. The Walter and Eliza Hall Institute of Medical Research	bahlo@wehi.edu.au	160.027
Atladdottir, H. O. University of Aarhus	hoa@soci.au.dk	119.004	Bahn, G. Kyung Hee University Medical Center, Kyung Hee University School of Medicine	mompeian@yahoo.co.kr	130.143
Attwood, T. The Asperger Clinic, Brisbane, Australia	tony@tonyattwood.com.au	117.143, 160.013	Bahrami, F. University of Isfahan	fbahrami20@yahoo.com	164.177
Au-Yeung, S. K. K. University of Southampton	skay206@soton.ac.uk	141.057	Bahrack, L. E. Florida International University	bahrack@fiu.edu	144.156
Aubert, E. CHU de Toulouse	aubert.e@chu-toulouse.fr	130.139	Baig, M. W. SSM Cardinal Glennon Children's Medical Center	mirzaw_baig@yahoo.com	162.115
Ausderau, K. K. K. University of North Carolina	ausderau@med.unc.edu	103.001	Bailenson, J. Stanford University	bailenson@gmail.com	154.003
Austin, H. University of Colorado Denver	harriet.austin@childrenscolorado.org	106.035	Bailey, A. J. UBC	anthony.bailey@ubc.ca	146.004
Autism Brain Imaging Data Exchange (ABIDE) Consortium, A. Multiple Organizations		108.159	Baillie, A. Macquarie University	andrew.baillie@mq.edu.au	137.024
Autism Sequencing Consortium, A. Mount Sinai School of Medicine, New York, NY		127.072	Bailus, B. J. J. University of California Davis	bjbailus@ucdavis.edu	105.028
Auyeung, B. University of Cambridge	ba251@cam.ac.uk	102.008, 107.117	Baio, J. Centers for Disease Control and Prevention	jbaio@cdc.gov	106.053
Avila, R. M. University of Washington	avilarm@u.washington.edu	106.067	Baird, G. Guy's Hospital	Gillian.Baird@gstt.nhs.uk	161.054, 161.095
Avital, H. Bar-Ilan University	hila.avital1@gmail.com	143.121	Baird, L. University of Utah	lbaird@genetics.utah.edu	127.069
Awad, J. Palestinian Happy Child Centre	jazeel_awad@hotmail.com	113.009	Bakeman, R. Georgia State University	bakeman@gsu.edu	109.003
Azadi, B. Institute of Psychiatry, King's College London	Bahare.Azadi_Sohi@kcl.ac.uk	161.088	Baker, B. L. UCLA	baker@psych.ucla.edu	161.070
Azevedo, R. T. Sapienza Università di Roma, Fondazione Santa Lucia	rubentazevedo@gmail.com	160.029	Baker, C. N. Tulane University	cnbaker@tulane.edu	107.081
Azmitia, E. C. New York University	eca1@nyu.edu	114.038	Baker, L. K. University of North Carolina School of Medicine	lorinda.baker@yahoo.com	105.021
Aznar Lain, G. Servei de Pediatria, Hospital del Mar-Parc de Salut Mar	GAznar@parcdesalutmar.cat	127.085	Bakian, A. V. University of Utah	amanda.bakian@hsc.utah.edu	148.001, 148.002, 148.004
			Bal, E. Children's National Medical Center	ebal@cnmc.org	130.141, 130.164, 157.001, 161.089
			Balcells, R. Hospital de Mataró	mbalcells@csdm.cat	117.115
			Baldini, S. Stella Maris Scientific Institute	sbaldini@inpe.unipi.it	107.118, 142.102

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Baldus, G. Institute of Clinical Physiology, National Research Council (CNR)	giovanni.baldus@ifc.cnr.it	128.112	Barthélémy, C. INSERM U930, Université François Rabelais, CHRU de Tours	catherine.barthelemy@chu-tours.fr	123.011
Baldwin, S. A. Brigham Young University	scott_baldwin@byu.edu	161.075	Bartley, G. K. K. Jr. Children's Hospital of Philadelphia	BartleyG@email.chop.edu	108.172, 129.125
Ballat, E. UCLA	elias.ballat@gmail.com	123.014	Barton, M. University of Connecticut	marianne.barton@uconn.edu	106.061, 107.116, 156.004, 160.019, 160.034, 166.002
Balmaña, N. Hospital Mutua de Terrassa	nbalmana@mutuaterrassa.cat	127.091	Barua, M. Action For Autism	actionforautism@gmail.com	113.005, 113.016, 165.003
Balsters, J. H. H. Trinity College Dublin	joshua.balsters@hest.ethz.ch	115.049, 115.057	Bastiaansen, J. A. C. J. Neuroimaging Center Groningen	j.bastiaansen@med.umcg.nl	108.138
Baltus, R. New Jersey Medical School - University of Medicine & Dentistry of New Jersey	RitaBaltuskonis@aol.com	160.021	Bastian, D. A. Brigham Young University	dab.anthony@gmail.com	122.007
Banaschewski, T. Central Institute of Mental Health, Medical Faculty, Mannheim, University of Heidelberg	tobias.banaschewski@zi-mannheim.de	162.106	Bastian, U. Nordlandssykehuset	uta.bastian@yahoo.no	130.166
Banerjee, P. The College of Staten Island (CUNY)	probal.banerjee@csi.cuny.edu	114.038	Basu, S. B. MindSpec Inc.	sharmila@mindspec.org	105.023
Bang, D. Oxford University, Aarhus University, Magdalen College	danbang.db@gmail.com	117.125	Batbayar, O. Oregon Health & Science University	batbayar@ohsu.edu	132.006
Bao, V. A. A. McGill University, Perceptual Neuroscience Laboratory for Autism and Development (PNLab)	vanessa.bao@mail.mcgill.ca	126.051, 144.137, 144.147	Bates, J. C. The Sheryl and Daniel R. Tishman Cognitive Neurophysiology Laboratory, Albert Einstein College of Medicine	juliana.bates@einstein.yu.edu	122.004
Barale, F. University of Pavia	frabar04@unipv.it	107.117	Bates, S. UCLA PEERS Program	sbates@mednet.ucla.edu	117.141, 117.158, 117.161, 130.138, 161.094
Baranek, G. T. University of North Carolina at Chapel Hill	grace_baranek@med.unc.edu	103.001, 123.015, 143.118	Batliner, A. Technische Universität München	anton.batliner@lrz.uni-muenchen.de	128.102, 128.108
Baranger, A. Autism-Europe aisbl	secretariat@autismeurope.org	128.102	Battaglia, M. Laval University and Institut Universitaire en Santé Mentale de Québec	battaglia.marco@hsr.it	161.088
Barbaro, J. La Trobe University	j.barbaro@latrobe.edu.au	107.084, 107.099	Batty, M. INSERM U930	magali.batty@univ-tours.fr	108.157
Barbeau, E. B. B. Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)	elise.barbeau@mail.mcgill.ca	108.160, 129.124	Bauer, C. R. University of Miami	cbauer@med.miami.edu	117.170
Barber, A. B. B. University of Alabama - ASD Clinic	abarber@bama.ua.edu	124.028	Bauer, J. General Hospital Salzburg/ PMU	jo.bauer@salk.at	120.002
Barber, A. D. Kennedy Krieger Institute, Johns Hopkins School of Medicine	barbera@kennedykrieger.org	108.170	Bauman, M. D. UC Davis	mdbauman@ucdavis.edu	105.003
Barbui, C. University of Verona	corrado.barbui@univr.it	130.168	Bauminger, N. Ph.D Bar-Ilan University	nirit.bauminger@biu.ac.il	166.004
Barger, B. The University of Georgia	bbarger@uga.edu	161.091, 163.139	Baxter, M. G. Mount Sinai School of Medicine	mark.baxter@mssm.edu	133.002
Barger, N. UC Davis M.I.N.D. Institute	nbarger@ucdavis.edu	114.036	Bayés, M. National Center for Genomic Analysis (CNAG)	mbayes@pcb.ub.cat	127.091
Barlow, K. Newcastle University	Katherine.Barlow@nuth.nhs.uk	117.147	Baykaner, O. Great Ormond Street Hospital for Children	o.baykaner@hotmail.com	112.008, 113.004, 116.083, 130.146, 130.148
Barnveld, P. S. Leiden University, Faculty of Social Sciences	barnveldps@fsw.leidenuniv.nl	166.003	Bayrami, T. The Help Group-UCLA Autism Research Alliance	bayramit@gmail.com	117.158
Baron-Cohen, S. University of Cambridge	sb205@cam.ac.uk	102.008, 107.089, 108.145, 108.158, 115.042, 128.102, 137.024, 137.030, 141.068, 164.171	Beamish, W. Griffith University	w.beamish@griffith.edu.au	113.025
Barone, A. Richmond University Medical Center	abarone@rumcsi.org	163.142	Bear, M. F. MIT & HHMI	mbear@mit.edu	102.001
Barredo, E. Hospital Gregorio Marañón de Madrid	estibalzbv@hotmail.com	136.014	Bearman, P. S. Columbia University	psb17@columbia.edu	104.002
Barrington, G. University of Melbourne	gbarring@bigpond.net.au	117.119	Beattie, T. IWK Health Centre	tricia.beattie@iwk.nshealth.ca	130.152
Barth, F. University of Kansas Medical Center	fbarth@kumc.edu	162.105	Beaumont, R. B. B. Social Skills Training Institute	renae@psy.uq.edu.au	130.144
Barth, M. Stanford University	mbarth84@stanford.edu	108.127	Bebko, J. M. York University	jbebko@yorku.ca	108.131, 126.039, 126.048, 164.152

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Bechi, G. Neurological Institute Foundation Carlo Besta	giubec82@gmail.com	120.001	Bent, S. University of California, San Francisco	Stephen.Bent@ucsf.edu	162.108, 167.007
Beck, J. S. UC Davis M.I.N.D. Institute	jona2beck@gmail.com	144.161	Bentenuto, A. University of Trento	arianna.bentenuto@unitn.it	127.087
Beck-Pancer, D. University of California, Los Angeles	devpancer@gmail.com	129.123, 134.005	Benton, L. University of Bath	L.j.benton@bath.ac.uk	121.006, 128.100
Becker, K. Philipps-University Marburg	kbecker@med.uni-marburg.de	108.134	Beresford, B. University of York	bab3@york.ac.uk	166.001
Bedford, R. Institute of Psychiatry	t.gliga@bbk.ac.uk	146.001, 163.132, 163.135	Berg, J. M. The University of California, Los Angeles	jbomar@ucla.edu	120.006
Beecham, J. London School of Economics and Political Science	J.Beecham@lse.ac.uk	132.003	Berger, H. Radboud University Nijmegen Medical Centre	h.berger@mps.umcn.nl	144.144, 161.063
Begeer, S. VU University Amsterdam, University of Sydney	S.Begeer@vu.nl	141.072, 157.002, 164.149	Berger, N. I. I. Michigan State University	bergerna@msu.edu	141.076
Behrmann, M. Carnegie Mellon University	behrmann@cmu.edu	144.171	Bergeron, J. Université de Sherbrooke	julie.l.bergeron@usherbrooke.ca	105.022
Beilstein, E. Azusa Pacific University	ebeilstein09@apu.edu	105.024	Berggren, S. Karolinska Institutet	steve.berggren@ki.se	128.102, 141.068, 144.142
Bejerot, S. Karolinska institutet	susanne.bejerot@sll.se	160.047	Berman, R. F. The M.I.N.D. Institute, University of California, Davis	rfberman@ucdavis.edu	105.006
Bekele, E. Vanderbilt University	esubalew.t.bekele@vanderbilt.edu	128.099	Bernal, P. Kaiser Permanente	Pilar.Bernal@kp.org	104.008
Belger, A. University of North Carolina at Chapel Hill	aysenil_belger@med.unc.edu	123.015	Bernier, R. University of Washington	rab2@u.washington.edu	122.008, 125.037, 127.061, 127.071, 130.145, 136.018, 136.022, 142.100, 155.007, 155.008
Belinson, H. Institute for Human Genetics, UCSF	belinsonh@peds.ucsf.edu	105.019	Berquist, K. L. L. Stanford University School of Medicine/Lucile Packard Children's Hospital	kbe@stanford.edu	143.119, 157.007
Bellando, J. University of Arkansas for Medical Sciences	bellandojayne@uams.edu	160.040	Berry, L. N. Texas Children's Hospital	lnberry@texaschildrens.org	142.105, 161.081
Bellesheim, K. R. Mount Sinai School of Medicine	katie.bellesheim@nyu.edu	126.056, 142.108	Berry-Kravis, E. Rush University Medical Center	Elizabeth_M_Berry-kravis@rush.edu	153.004
Bellinzoni, M. Institut Pasteur CNRS URA UMR3528	marco.bellinzoni@pasteur.fr	127.070	Bertelsen, F. Center of Functionally Integrative Neuroscience, Aarhus University, PET-Centre, Aarhus University Hospital	frejacbb@gmail.com	105.005
Belmonte, M. K. The Groden Center	belmonte@mit.edu	128.109	Bertoletti, E. Vita-Salute San Raffaele University	bertoletti.eleonora@hsr.it	161.088
Belovich, A. N. Vanderbilt University	andrea.n.belovich@Vanderbilt.Edu	127.064	Bertone, A. Perceptual Neuroscience Laboratory for Autism and Development (PNLab), Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM), McGill University	armando.bertone@gmail.com	126.040, 126.051, 126.055, 144.137, 144.147
Ben David, E. The Hebrew University of Jerusalem	eyalbd@gmail.com	105.010	Bertzoz, K. A. PharmaNet-i3	kbertzoz@pharmanet-i3.com	107.110
Ben Itzchak, E. Ariel University Center/ Assaf Harofeh Medical Center	benitza@ariel.ac.il	103.002, 106.062	Berwise, C. A. Hartford Hospital	Cberwise@harthosp.org	115.068
Ben-David, E. The Hebrew University of Jerusalem	eyal.bendavid@mail.huji.ac.il	127.060, 127.063	Besner, A. University of Minnesota	besn0002@umn.edu	117.134
Ben-Yosef, D. Bar-Ilan University	dekelbenyosef@gmail.com	144.152	Bethea, T. C. University of North Carolina	babydocmd@gmail.com	167.008
Benevides, T. Thomas Jefferson University	txw131@jefferson.edu	160.014, 162.113	Bethell, C. Oregon Health & Science University	bethellc@ohsu.edu	113.019, 132.006
Benfenati, F. Istituto Italiano di Tecnologia	fabio.benfenati@iit.it	105.027	Beversdorf, D. Q. University of Missouri	beversdorf@health.missouri.edu	105.017, 106.033, 115.065
Bennett, A. Children's Hospital of Philadelphia	bennettam@email.chop.edu	142.105, 142.109	Bezemer, M. L. Lentis	m.bezemer@lentis.nl	144.166
Bennett, D. UC Davis	dhbennett@ucdavis.edu	104.006, 106.039, 106.040, 119.003	Bharath, R. D. NIMHANS	bhatara@gmail.com	115.047
Bennett, R. H. Yale Child Study Center	randi.bennett@yale.edu	108.133, 156.002	Bhatara, A. K. Université Paris Descartes, UCLA	bhatara@gmail.com	123.014
Bennett, T. Offord Centre for Child Studies & McMaster University	bennett@hhsc.ca	102.007	Bhutani, V. K. Stanford University School of Medicine and Lucile Packard Children's Hospital	bhutani@stanford.edu	107.124, 107.125, 111.002, 158.004
Bennetto, L. University of Rochester	bennetto@psych.rochester.edu	123.018, 126.047			
Benoit, R. MRC Cognition and Brain Sciences Unit	roland.benoit@mrc-cbu.cam.ac.uk	141.073			
Benson, B. A. Nisonger Center	Betsy.Benson@osumc.edu	117.112			
Benson, V. University of Southampton	vb1@soton.ac.uk	141.057			

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Biagi, L. Magnetic Resonance Laboratory, Stella Maris Scientific Institute	l.biagi@inpe.unipi.it	156.005	Blatt, G. J. J. Boston University School of Medicine	gblatt@bu.edu	114.035
Bianchi-Berthouze, N. UCL	b.berthouze@ucl.ac.uk	141.044	Blijd-Hoogewys, E. M. M. Lentis	ema.hoogewys@lentis.nl	117.136, 143.132, 144.166
Bianco, F. Adult Autism Center, ASL TO2, Turin, Italy	francescabianco80@gmail.com	115.052	Block, H. University of Utah	heidi.block@utah.edu	130.154
Bichsel, C. Yale University School of Medicine	candace.bichsel@yale.edu	150.003	Bloise, N. University of Pavia	nora.bloise@unipv.it	107.117
Biel, M. Georgetown University	mgb101@gunet.georgetown.edu	113.010	Blomqvist, M. Karolinska Institutet	my.blomqvist@ki.se	161.059
Bifone, A. Istituto Italiano di Tecnologia Center for Nanotechnology Innovation @NEST	angelo.bifone@iit.it	133.008	Bloomfield, R. Shire Pharmaceutical Development Ltd	rbloomfield@shire.com	162.106
Bigler, E. D. Brigham Young University	erinb@cortex.byu.edu	112.001, 115.046, 115.056, 115.062, 115.073, 164.162	Bloy, L. The Children's Hospital of Philadelphia	Bloyl@email.chop.edu	129.126
Bilbe, G. Neuroscience Discovery, Novartis Pharma AG	graeme.bilbe@novartis.com	153.004	Blumberg, S. Vanderbilt Kennedy Center	sarah.blumberg@vanderbilt.edu	113.029
Bilder, D. University of Utah	deborah.bilder@hsc.utah.edu	148.001, 148.002, 148.003, 148.004, 160.046	Blumberg, S. J. J. Centers for Disease Control and Prevention	swb5@CDC.GOV	106.067
Bilenberg, N. University of Southern Denmark	niels.bilenberg@psyk.regionsyddanmark.dk	136.015, 144.170, 161.064	Boada, L. Child and Adolescent Psychiatry Department, Hospital General Universitario Gregorio Marañón. Instituto de Investigación Sanitaria Gregorio Marañón. IISGM. CIBERSAM	lboada@iisgm.com	116.104, 127.066, 128.114, 141.063, 141.066
Billeci, L. Institute of Clinical Physiology, National Research Council	luca.billeci@ifc.cnr.it	103.005, 106.071, 128.112	Boccone, L. ASL 8, University of Cagliari	lboccone@mcweb.unica.it	140.037
Billstedt, E. University of Gothenburg	eva.billstedt@neuro.gu.se	121.007	Boddaert, N. INSERM Unity 1000, Necker Hospital	nathalie.boddaert@nck.aphp.fr	108.139
Binder, E. Max Planck Institute of Psychiatry	ebinder@emory.edu	140.040	Bodfish, J. W. Vanderbilt University	jim.bodfish@vanderbilt.edu	108.130
Bird, G. Birkbeck College	birdgp@gmail.com	141.062, 141.069, 141.071	Bodner, K. E. University of Missouri	kimberly.bodner@mail.mizzou.edu	117.135
Birnbaum, R. Y. Institute for Human Genetics, UCSF	Ramon.Birnbaum@ucsf.edu	105.019	Boer, F. University of Amsterdam	f.boer@amc.uva.nl	157.002
Birnbaum, R. Montreal Children's Hospital	rena.birnbaum@muhc.mcgill.ca	127.068	Boerwinkle, E. The University of Texas School of Public Health at Houston	Eric.Boerwinkle@uth.tmc.edu	104.005
Bishop, S. L. Weill Cornell Medical College	slb9013@med.cornell.edu	103.004, 111.001, 121.004, 160.043	Boets, B. KU Leuven, KU Leuven	bart.boets@ped.kuleuven.be	117.116, 126.049, 144.154
Bjerrum, M. University of Aarhus	mb@sygeplejevid.au.dk	106.074	Boilson, A. M. M. Dublin City University	andrew.boilson2@mail.dcu.ie	106.031
Bjornn, D. Brigham Young University	daniel.bjornn@gmail.com	164.157	Bolling, D. Z. Yale Child Study Center	danielle.bolling@yale.edu	108.133
Bjureberg, J. Karolinska Hospital, Psychiatry Northwest	johan.bjureberg@sil.se	130.147	Bolourian, Y. The Help Group - UCLA Autism Research Alliance	ybolourian@yahoo.com	106.069, 117.161, 154.001
Blacher, J. University of California - Riverside	jan.blacher@ucr.edu	113.031, 161.070	Bölte, S. Karolinska Institutet		107.104, 115.043, 128.102, 130.147, 141.068, 144.142
Black, J. University of Bath	j.s.black@bath.ac.uk	144.139	Bolton, P. F. F. Institute of Psychiatry, King's College London	Patrick.Bolton@kcl.ac.uk	107.087, 127.065, 144.145, 161.088
Black, L. M. Oregon Health & Science University	lblack@cslu.ogi.edu	139.034	Boncoddo, M. Universita' di Messina	mariaboncoddo@virgilio.it	103.005, 106.071
Blakeley-Smith, A. Univ. of Colo. Denver- JFK Partners	audrey.blakeleysmith@ucdenver.edu	130.152, 157.008	Bonefeld-Jørgensen, E. C. Department of Environmental and Occupational Medicine, HEALTH, Aarhus University	EBJ@mil.au.dk	106.050
Blakely, R. D. Vanderbilt University	randy.blakely@vanderbilt.edu	147.003, 147.004	Bong, G. Y. Seongnam Child and Adolescent Community Mental Health Center	espresso9@hanmail.net	130.143
Blakemore, S. J. University College London	s.blakemore@ucl.ac.uk	141.044	Bonneh, Y. S. S. University of Haifa	yoram.bonneh@gmail.com	117.173
Blanc, R. INSERM U930	r.blanc@chu-tours.fr	124.024	Bonner, J. Michigan State University	bonnerj5@msu.edu	159.007, 159.008
Blanche, E. I. I. University of Southern California	blanche@usc.edu	113.006	Bonnet-Brilhaut, F. UMR Inserm U930	frederique.brilhaut@univ-tours.fr	108.126, 108.147, 117.127, 117.153, 123.011
Blanke, M. Philipp-University Marburg	marius.blanke@gmail.com	108.134	Bookheimer, S. Y. University of California, Los Angeles	sbook@ucla.edu	129.123
Blaskey, L. Children's Hospital of Philadelphia	blaskey@email.chop.edu	104.008, 123.016, 129.126, 129.131			

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Boonen, H. University of Leuven (KU Leuven)	hannah.boonen@ppw.kuleuven.be	103.006, 160.028	Breitenbach-Koller, H. University of Salzburg	hannelore.koller@sbg.ac.at	120.002
Booth, R. D. King's College London	rhonda.booth@kcl.ac.uk	141.053	Bremmer, F. Philipps-University Marburg	Frank.Bremmer@physik.uni-marburg.de	108.134
Bordini, D. Jr. Federal University of São Paulo	danibordini4@gmail.com	106.052	Brennan, L. A. University of Connecticut	laura.brennan@uconn.edu	107.116
Borenstein, E. University of Washington	elbo@u.washington.edu	155.008	Brereton, A. V. Monash University	avril.brereton@monash.edu	116.077
Borsboom, D. University of Amsterdam	D.Borsboom@uva.nl	161.052	Bressler, J. The University of Texas School of Public Health at Houston	Jan.Bressler@uth.tmc.edu	104.005
Boso, M. University of Pavia	marianna.boso@unipv.it	107.117	Brewaeys, K. University of Leuven (KU Leuven)	katrien.brewaeys@student.kuleuven.be	141.045
Botts, E. L. Vanderbilt University	elizabeth.l.botts@vanderbilt.edu	148.002	Brewer, N. Flinders University of South Australia	neil.brewer@flinders.edu.au	107.113, 117.163, 141.058, 158.002
Boucher, J. City University London	Jill.Boucher.1@city.ac.uk	168.004	Brewer, R. Birkbeck, University of London	rebeccabrewer89@gmail.com	141.062
Boudesteijn, F. Yulius	f.boudesteijn@yulius.nl	167.002	Brezis, R. S. S. UCLA	rsbrezis@ucla.edu	113.005, 113.016, 165.003
Boudreau, A. Dalhousie University	ainsley.boudreau@dal.ca	163.128	Brian, J. A. A. Holland Bloorview/Sick Kids	jbrian@hollandbloorview.ca	111.008, 117.132, 162.102, 163.128
Bourgeron, T. Paris Diderot University	thomasb@pasteur.fr	111.007, 115.074, 127.070, 133.001	Brisot-Dubois, J. Autism Resources Center, CHRU Montpellier and Laboratory Epsilon	j-brisot@chu-montpellier.fr	161.056
Bouser, K. A. The Children's Hospital of Philadelphia	bouserk@email.chop.edu	116.078	Brochu, M. E. Université de Sherbrooke	marie-elsa.brochu@usherbrooke.ca	105.022
Boussaid, N. University of Monastir	narjespsy@gmail.com	137.026	Brock, J. Macquarie University	jon.brock@mq.edu.au	108.143, 144.148
Bouvard, M. CH Charles Perrens	mbouvard@ch-perrens.fr	126.044, 126.052	Brock, M. Vanderbilt University	matthew.e.brock@vanderbilt.edu	113.017, 113.029
Bower, T. T. UTD		106.038	Brodeur, D. Acadia University	Darlene.brodeur@acadiau.ca	144.162
Bowler, D. M. City University London	d.m.bowler@city.ac.uk	141.061, 144.146, 144.155, 144.176, 166.006, 168.005	Broekhof, E. Leiden University	e.broekhof@fsw.leidenuniv.nl	141.085, 161.069, 161.083
Bowyer, S. M. Henry Ford Hospital	sbowyer1@hfhs.org	108.164	Bromhead, C. The Walter and Eliza Hall Institute of Medical Research	bromhead@wehi.EDU.AU	160.027
Boyd, B. University of North Carolina at Chapel Hill	brian_boyd@med.unc.edu	117.152, 124.019, 124.021, 164.172	Brondino, N. University of Pavia	nataascia.brondino@libero.it	107.117
Boyle, M. Offord Centre for Child Studies & McMaster University	boylem@mcmaster.ca	102.007	Brookman-Fraze, L. University of California, San Diego	lbrookman@ucsd.edu	113.011, 116.100, 130.171
Brachini, F. Stella Maris Scientific Institute	fbrachini@inpe.unipi.it	142.102	Brooks, B. Georgia State University	bbrooks11@student.gsu.edu	154.008
Bradshaw, J. University of California, Santa Barbara	jbradshaw@education.ucsb.edu	121.005, 124.035	Brooks, W. T. T. Nisonger Center	whitney.brooks@osumc.edu	117.112
Bradstreet, L. E. E. Georgia State University	lbradstreet1@gmail.com	107.111, 161.080	Brosh, N. Holland Bloorview Kids Rehab Hospital University of Toronto	nbrosh@hollandbloorview.ca	117.132
Brady, C. A. A. PharmaNet-i3	cbrady@pharmanet-i3.com	107.110	Brosnan, M. Ph.D University of Bath	m.j.brosnan@bath.ac.uk	121.006, 128.100, 141.086, 144.139, 144.168
Braeutigam, S. University of Oxford, Oxford Human Brain Activity Centre	sven.braeutigam@psych.ox.ac.uk	122.001	Brown, A. S. New York State Psychiatric Institute, Mailman School of Public Health, Columbia University	asb11@columbia.edu	106.056, 106.058
Brammer, M. King's College London, Institute of Psychiatry	Mick.Brammer@op.kcl.ac.uk	108.146	Brown, H. M. M. Western University	hlade@uwo.ca	164.146
Brandwein, A. B. The Graduate Center and Queens College of the City University of New York, The Sheryl and Daniel R. Tishman Cognitive Neurophysiology Laboratory, Albert Einstein College of Medicine	alice.brandwein@einstein.yu.edu alice1012@gmail.com	122.004, 123.012	Brown, J. A. University of California, Los Angeles	jbrown81@gmail.com	129.123
Branson, J. Neuroscience Discovery, Novartis Pharma AG	janice.branson@novartis.com	153.004	Brown, L. University of Cambridge	lb516@cam.ac.uk	117.178
Brass, M. Ghent University	marcel.brass@ugent.be	125.038	Brown, N. J. Victorian Clinical Genetics Service, University of Melbourne, Barwon Health	tash_brown@yahoo.com.au	160.027
Brayne, C. University of Cambridge	cb105@medschl.cam.ac.uk	102.008	Brown, S. C. Bloomberg School of Public Health	sbrown@jhsph.edu	106.046
Breitenbach, M. Department of Education and Early Childhood Development	mmbreitenbach@gov.pe.ca	106.043	Brown, S. M. M. York University	stbrown@yorku.ca	108.131, 117.160, 126.048
Breitenbach, M. University of Salzburg	michael.breitenbach@sbg.ac.at	120.002			

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Brown, W. T. New York State Institute for Basic Research in Developmental Disabilities	wtbibr@aol.com	114.039, 142.095	Buruma, M. E. Lentis	me.buruma@lentis.nl	117.136
Brown-Wright, L. Great Ormond Street Hospital	Lucy.brownwright@gosh.nhs.uk	164.151	Bush, J. C. C. Children's Hospital of Philadelphia	bushj@email.chop.edu	137.028
Browne, A. N. Children's Hospital of Philadelphia	brownea@email.chop.edu	108.172, 108.173, 115.066, 129.125	Bush, L. Seaver Autism Center	lauren.a.bush@mssm.edu	126.056
Brownell, M. University of Manitoba	Marni_Brownell@cpe.umanitoba.ca	106.048	Butler, J. S. The Sheryl and Daniel R. Tishman Cognitive Neurophysiology Laboratory, Albert Einstein College of Medicine	john.butler@einstein.yu.edu	122.004
Brugha, T. University of Leicester	TSB@LE.AC.UK	102.003	Butler, M. University of Kansas Medical Center	mbutler4@kumc.edu	162.105
Bruidegom, K. A. A. Leiden University	kiki.bruidegom@hotmail.com	141.085	Butler, R. Autism Speaks	rbutler@agre.org	106.040
Bruining, H. Brain Centre Rudolf Magnus	h.bruining@umcutrecht.nl	127.065	Buxbaum, J. D. Mount Sinai School of Medicine	joseph.buxbaum@mssm.edu	107.076, 126.056, 127.072, 130.153, 133.002, 142.108, 167.004
Brun, M. University College London	melanie.brun03@gmail.com	141.073	Buyske, S. Rutgers University	buyske@stat.rutgers.edu	127.080
Bruneau, N. INSERM U930, Université François Rabelais, CHRU de Tours	nicole.bruneau@univ-tours.fr	123.011	Byars, K. Cincinnati Children's Hospital Medical Center	Kelly.Byars@cchmc.org	142.109
Brunelle, F. INSERM Unity 1000, Necker Hospital	francis.brunelle@nck.ap-hop-paris.fr	108.139	Byers, S. University of New Brunswick	byers@unb.ca	164.153
Brunsdon, V. E. A. E. SGDP, Institute of Psychiatry, King's College London	victoria.brunsdon@kcl.ac.uk	144.145	C		
Bruses, J. L. L. University of Kansas School of Medicine	jbruses@kumc.edu	120.008	C AIMS Consortium, M. R. University of Cambridge, Institute of Psychiatry, University of Oxford	cam.aims@gmail.com	108.145
Bryant, J. D. Vanderbilt University	julie.d.denham@vanderbilt.edu	124.032, 130.176	Cacciotti, C. University of Sydney	cristina.cacciotti@sydney.edu.au	162.101
Bryson, S. E. Dalhousie University/ IWK Health Centre	Susan.Bryson@iwk.nshealth.ca	102.007, 110.001, 111.008, 112.003, 117.132, 121.008, 163.128	Cadman, T. Institute of Psychiatry, King's College London	timcadman@gmail.com	132.003
Buchert, C. CH Charles Perrens	cbuchert@ch-perrens.fr	126.052	Café, C. Hospital Pediátrico Carmona da Mota (HP)-Centro Hospitalar e Universitário de Coimbra (CHUC)	catiacafe@yahoo.com	140.041, 154.006, 160.042
Buchovecky, C. M. M. Baylor College of Medicine	cbug87@aol.com	102.004	Caffo, B. S. Johns Hopkins Bloomberg School of Public Health	bcaffo@gmail.com	108.170
Buck, T. University of Utah	tara.buck@hsc.utah.edu	148.003	Cage, E. Birkbeck College, Centre for Research in Autism & Education	e.cage@ioe.ac.uk	141.071
Buitelaar, J. K. Radboud University Nijmegen Medical Centre, Donders Institute for Brain, Cognition and Behavior, Karakter Child and Adolescent Psychiatry University Centre Nijmegen	J.Buitelaar@psy.umcn.nl	136.020, 145.001, 145.003, 145.004	Cain, S. University of Kansas Medical Center	scain@kumc.edu	162.105
Bukshpun, P. UCSF	bukshpun@neuropeds.ucsf.edu	115.045	Calafat, A. Centers for Disease Control and Prevention	aic7@cdc.gov	104.003
Bullmore, E. T. University of Cambridge	etb23@cam.ac.uk	108.145, 108.158	Calderoni, S. Magnetic Resonance Laboratory, Division of Child Neurology and Psychiatry University of Pisa; Stella Maris Scientific Institute	sara.calderoni@inpe.unipi.it	107.122, 156.005
Bulluck, J. University of North Carolina at Chapel Hill	john_bulluck@med.unc.edu	103.001	Callahan, K. J. University of North Texas	callahan@unt.edu	130.169
Bultas, M. Saint Louis University School of Nursing	mbultas@slu.edu	162.115	Calmon, R. P. INSERM Unity 1000, Necker Hospital	rcalmon@gmail.com	108.139
Bundy, A. C. University of Sydney	anita.bundy@sydney.edu.au	164.158	Calvo Boixet, A. IDIBAPS	acalvo@clinic.ub.es	115.055
Burack, J. A. McGill University	jake.burack@mcgill.ca	144.162	Calvo Escalona, R. Hospital Clinic of Barcelona, CIBERSAM	rcalvo@clinic.ub.es	115.055, 117.115, 141.077, 144.140
Burch, K. Emory University	kfburch@emory.edu	106.036	Camarata, S. M. Vanderbilt University Kennedy Center	stephen.camarata@vanderbilt.edu	126.054, 168.002
Burdukova, J. A. Moscow State University of Psychology and Education (MSUPE)	julia_burd@inbox.ru	144.165	Campbell, D. B. B. University of Southern California	dbcampbe@usc.edu	134.001, 155.002, 160.022
Burger-Caplan, R. Emory University	rebecca.burger-caplan@emory.edu	117.166	Campbell, J. M. University of Kentucky	jmca244@uky.edu	113.015, 161.091, 163.139
Burke, L. J. J. The Redpath Centre	lillian.burke@redpathcentre.ca	142.097, 160.037			
Burner, K. M. Seattle Children's Research Institute	kburner@u.washington.edu	125.037, 130.145			
Burnham Riosa, P. The Hospital for Sick Children	priscilla.burnhamriosa@sickkids.ca	116.082, 142.097			

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Campbell, N. G. Vanderbilt University	nicholas.g.campbell@Vanderbilt.Edu	127.064, 147.004	Carter, E. Vanderbilt University	erik.carter@Vanderbilt.Edu	113.029
Campe, K. L. Boston Children's Hospital	katherine.campe@childrens.harvard.edu	121.001	Carter Leno, V. Institute of Psychiatry	vinny_carter_leno@hotmail.co.uk	161.095
Campillo, C. University of Valencia	Cristina.Campillo@uv.es	128.115	Cartocci, G. Istituto Superiore di Sanità	giulia.cartocci@uniroma1.it	105.025
Campolongo, M. IFIByNE, UBA-CONICET	marcos.campolongo@gmail.com	105.008	Carvill, G. L. University of Washington	gcarvill@u.washington.edu	155.008
Campos, A. University of Valencia	acampos@autismo.uv.es	128.115	Casagrande, K. A. A. Georgia State University	karis.casagrande@gmail.com	154.008
Camurri, A. University of Genova	antonio.camurri@unige.it	128.102	Casanova, M. F. University of Louisville	m0casa02@louisville.edu	113.027, 115.071, 136.008, 162.116
Canal-Bedia, R. University of Salamanca	rcanal@usal.es	104.007	Cascio, C. Vanderbilt University School of Medicine	carissa.cascio@vanderbilt.edu	149.003
Canese, R. Istituto Superiore di Sanità	canese@yahoo.it	105.020	Cassidy, S. A. A. University of Nottingham	sac88@medschl.cam.ac.uk	135.007
Canitano, R. University Hospital of Siena	r.canitano@ao-siena.toscana.it	117.151, 135.002, 142.111	Castellanos, F. X. Institute for Pediatric Neuroscience	castef01@nyumc.org	149.002
Cannon, K. M. Children's Hospital of Philadelphia	katee.cannon@gmail.com	123.016, 129.131	Castro, P. Hospital General Universitario Gregorio Marañon	pcastrocc@gmail.com	136.014
Cannon, L. Ivymount School	lcannon@ivymount.org	130.141, 130.164, 157.001	Castro-Fornieles, J. Hospital Clinic of Barcelona	jcastro@clinic.ub.es	117.115, 141.077
Cantio, C. University of Southern Denmark	cathrionacantio@hotmail.com	136.015, 144.170	Catani, M. Institute of Psychiatry	m.catani@kcl.ac.uk	156.001
Capirci, O. Sr. National Research Council of Italy (CNR)	olga.capirci@istc.cnr.it	117.137, 117.150, 164.150	Catchpole, C. Queen Margaret University	CCatchpole@qmu.ac.uk	107.119, 107.120, 107.121
Caplan, B. UCLA	barbara.caplan@ucla.edu	161.070	Cauda, F. University of Turin, CCS fMRI, Koelliker Hospital, Turin, Italy	franco.cauda@unito.it	115.052
Cappadocia, M. C. York University	catcap@yorku.ca	164.152	Causey, M. E. SynapDx Corp	mcausey@synapdx.com	107.082
Caramelo, F. University of Coimbra	fcaramelo@ibili.uc.pt	162.104	Celestino, M. I. Bahiana School of Medicine and Public Health	melzinha_feliz@hotmail.com	161.097
Caravella, K. E. E. Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine	kelly.caravella@choa.org	107.100, 138.033	Cerda, G. University of California, San Diego	gcerda@ucsd.edu	116.100
Carayol, J. IntegraGen SA	jerome.carayol@integragen.com	160.015	Cerliani, L. Netherlands Institute for Neuroscience, Neuroimaging Center Groningen	leonardo.cerliani@gmail.com	108.138
Careaga, M. The M.I.N.D. Institute, University of California, Davis	mcareaga@ucdavis.edu	105.006, 135.005, 162.103	Cermak, T. Marcus Autism Center	tracy.cermak@choa.org	107.100
Cariello, A. University of Utah	annahir.cariello@gmail.com	112.001, 115.056	Ceulemans, E. University of Leuven	eva.ceulemans@ppw.kuleuven.be	139.035, 144.143
Cariet-Nelles, B. University of Applied Sciences Western Switzerland	bnelles@orange.fr	141.047	Chabane, N. INSERM Unity 1000, Robert Debre Hospital	nadia.chabanne@rdb.aphp.fr	108.139, 126.042
Carlessi, L. Fondazione IRCCS Istituto Nazionale dei Tumori	luigi.carlessi@istitutotumori.mi.it	120.001	Chacin, J. A. La Universidad del Zulia	chacin_jose@hotmail.com	106.034, 154.007
Carlström, C. Uppsala University	the.christoffer@gmail.com	146.003	Chakrabarti, B. University of Reading	b.chakrabarti@reading.ac.uk	108.145, 108.158, 160.050
Carpenter, L. A. Medical University of South Carolina	carpentl@musc.edu	106.055, 162.109	Challman, T. D. Geisinger Health System, Bucknell University	tdchallman@geisinger.edu	127.061
Carpenter, R. L. Seaside Therapeutics	taddario@seasidetherapeutics.com	102.001	Chamberlain, P. D. Mikle South Research Lab	paul.chamberlain89@gmail.com	141.043, 161.051, 164.157
Carpick, K. University of Manitoba	umcarpick@cc.umanitoba.ca	130.137, 130.151	Chan, G. National University of Singapore	a0022385@nus.edu.sg	107.094
Carr, K. University of Notre Dame		107.086	Chan, J. Y. National University of Singapore	jingyi32@gmail.com	161.067, 161.099
Carr, T. University of Michigan	tmhcarr@umich.edu	109.002	Chance, S. University of Oxford	steven.chance@ndcn.ox.ac.uk	114.033, 115.059
Carrasco, M. New York University	marisa.carrasco@nyu.edu	144.171	Chandler, S. Institute of Education	s.chandler@ioe.ac.uk	107.089
Carrington, S. J. Wales Autism Research Centre	carringtonsj@cardiff.ac.uk	107.080, 116.106	Chang, C. L. Kaohsiung Armed Forces General Hospital	changchenling@gmail.com	117.123, 125.036
Carson, A. M. Marquette University	audreymcarson@gmail.com	122.006	Chang, J. Yale University	joseph.chang@yale.edu	160.022
Carta, M. Azienda Ospedaliera Brotzu	marinellacarta@aob.it	123.002	Chang, M. Seo Kyeong University	cosmos@skuniv.ac.kr	117.113
Carter, C. S. UC Davis, Psychiatry, Imaging Research Center	cameron.carter@ucdmc.ucdavis.edu	108.171			

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Chang, Y. C. University of California, Los Angeles	jchang1231@aol.com	124.030	Choi, J. E. University of California, San Francisco	jae.e.choi@gmail.com	162.103, 162.108, 167.007
Chapman, E. University of Bath	ela21@bath.ac.uk	121.006, 128.100, 144.168	Choimes, G. Flinders University	genna.choimes@flinders.edu.au	107.113
Chapman, P. University of Nottingham	Peter.Chapman@nottingham.ac.uk	135.007	Choo, S. KK Women's and Children's Hospital	sylvia.choo.h.t.@kkh.com.sg	107.094
Charles, J. Medical University of South Carolina	charlesj@musc.edu	106.055, 162.109	Chow, V. Y. The Children's Hospital of Philadelphia	chowv@email.chop.edu	161.081
Charlton, M. P. P. Royal Children's Hospital, Royal Victorian Eye and Ear Hospital, Taralye Oral Language Centre for Deaf Children	charlton@vicnet.net.au	142.101	Chowdhury, M. Allegheny College	mchowdhury@allegheny.edu	161.077
Charman, T. Institute of Education	t.charman@ioe.ac.uk	107.089, 113.001, 116.093, 116.096, 126.045, 127.089, 134.007, 134.008, 136.010, 146.001, 160.024, 161.054, 161.095, 163.132, 163.133, 163.134, 163.135, 163.145	Christ, S. E. University of Missouri	ChristSE@missouri.edu	115.065, 115.067
Chauhan, A. NYS Institute for Basic Research in Developmental Disabilities	abha.chauhan@opwdd.ny.gov	120.004, 135.001	Christakou, A. King's College London, Institute of Psychiatry	anastasia.christakou@iop.kcl.ac.uk	108.146
Chauhan, V. NYS Institute for Basic Research in Developmental Disabilities	ved.chauhan@opwdd.ny.gov	120.004, 135.001	Christensen, B. Golden Helix, Inc.	Christensen@goldenhelix.com	127.069
Chawarska, K. Yale University School of Medicine	katarzyna.chawarska@yale.edu	134.001, 134.002, 138.031, 138.033, 160.022	Christophersen, C. T. CSIRO Food and Nutritional Sciences	c.christophersen@csiro.au	135.004
Cheely, C. A. Medical University of South Carolina	cheely@musc.edu	106.055, 162.109	Chromik, L. C. Stanford University	lchromik@stanford.edu	154.005
Chelly, J. Institut Cochin	jamel.chelly@inserm.fr	120.007	Chu, Y. Harvard Medical School	yunxiang.chu@gmail.com	133.004
Chen, G. M. Yale University School of Medicine	grace.chen@yale.edu	134.001, 134.002	Chua, K. W. University of Pittsburgh	kaochua@gmail.com	129.132
Chen, L. The University of California, Los Angeles	lesliechen@mednet.ucla.edu	120.006	Chua, S. E. The University of Hong Kong	sechua@hkucc.hku.hk	133.006
Chen, Y. W. University of Sydney	yu-wei.chen@sydney.edu.au	164.158	Chung, R. H. University of Miami	rhchung@med.miami.edu	127.078
Chen, Z. University of California, Davis	zhechen@ucdavis.edu	144.173	Chung, W. Columbia University Medical Center	wkc15@mail.cumc.columbia.edu	127.061
Cherubini, M. Seaside Therapeutics	mcherubini@seasidetherapeutics.com	102.001	Chura, L. R. Cambridge University	lrc36@cam.ac.uk	115.042
Chester, M. RMIT University	s3266880@student.rmit.edu.au	130.150	Ciccoli, L. University of Siena	ciccoli@unisi.it	135.002
Cheung, C. H. Yale Child Study Center	celeste.cheung@kcl.ac.uk	123.003	Ciuffo, M. Università di Messina	massimociuffo@gmail.com	103.005
Cheung, S. C. S. S. University of Kentucky	sccheung@ieee.org	128.116	Clark, C. A. UCL Institute of Child Health	christopher.clark@ucl.ac.uk	108.144, 115.048
Chien, Y. L. National Taiwan University Hospital	ylchien@hotmail.com	144.138	Clark, E. University of Utah	clark@ed.utah.edu	130.154
Chiew, J. Beth Israel Deaconess Medical Center and Harvard Medical School	jessica.jc.chiew@gmail.com	141.078, 167.003	Clark, T. Autism Spectrum Australia (ASPECT)	tclark@autismspectrum.org.au	130.144
Chin, I. University of Connecticut	iris.chin@uconn.edu	128.110	Clarke, H. Institute of Psychiatry, King's College London	hanna.clarke@kcl.ac.uk	132.003
Chiocchetti, A. University of Salzburg, Deutsches Krebsforschungszentrum (DKFZ), Goethe University	andreas.chiocchetti@kgu.de	120.002, 127.073	Clarke, K. University of Sydney	kristina.clarke@sydney.edu.au	130.144
Chitty, D. IWK Health Centre	dorothy.chitty@iwk.nshealth.ca	143.123	Clarke, M. Sinneave Family Foundation	Margaret.Clarke@sinneavefoundation.org	116.085, 116.102, 132.008
Cho, I. H. Gacheon University of Mecine and Science	ellenihc@yahoo.com	130.143, 140.039	Clasen, L. S. National Institute of Mental Health	clasenl@mail.nih.gov	160.030
Cho, S. C. Seoul National University Hospital, Seoul National University College of Medicine	soochurl@snu.ac.kr	130.143, 140.039	Clouser, C. De Bascule	c.clouser@debascule.com	157.002

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Clifford, P.	gevers.clifford@gmail.com	157.002	Conneely, K.	kconnee@emory.edu	140.040
Clipperton-Allen, A. The Scripps Research Institute	AAllen@scripps.edu	105.007	Emory University School of Medicine		
Cloez-Tayarani, I. Institut Pasteur CNRS URA 2182	icloez@pasteur.fr	127.070	Connelly, N. E.	niki_connelly@med.unc.edu	167.008
Cockrell, D. University of North Carolina at Chapel Hill	dcc1012@live.unc.edu	108.130	University of North Carolina at Chapel Hill		
Codina, M. Universitat Pompeu Fabra, The Centre for Biomedical Network Research on Rare Diseases (CIBERER), Instituto de Investigación Sanitaria IMIM-Hospital del Mar	marta.codina@upf.edu	127.085	Connolly, H.	Heidi_Connolly@URMC.Rochester.edu	142.109
Coe, B. University of Washington	bcoe@u.washington.edu	155.008	University of Rochester Medical Center		
Coelho, J. Instituto Nacional de Saúde Doutor Ricardo Jorge	joanacoelho21@gmail.com	140.041	Consortium, M. A.	cam.aim@gmail.com	108.158
Coetzee, G. A. University of Southern California	coetzee@usc.edu	155.002	University of Cambridge, Institute of Psychiatry, University of Oxford		
Coffman, M. Yale Child Study Center	marika.coffman@yale.edu	121.005, 122.008, 123.001, 123.004, 136.009, 136.012, 136.018,	Consortium, P.	kathryn.bourne-4@manchester.ac.uk	164.167
Coghill, D. University of Dundee	d.r.coghill@dundee.ac.uk	162.106	University of Manchester		
Coghlan, S. Institute of Psychiatry, King's College London	suzanne.s.coghlan@kcl.ac.uk	108.151	Constantin, A.	A.Constantin-2@sms.ed.ac.uk	128.105
Cohen, C. K. Boston University	ckcohen@bu.edu	117.172	University of Edinburgh		
Cohen, D. Groupe Hospitalier Pitié-Salpêtrière, APHP, Université Pierre et Marie Curie, Paris VI	isabelle.babilaere@psl.aphp.fr	160.015	Constantino, J. N.	constantino@wustl.edu	102.006, 106.037, 127.061, 127.076, 127.077, 162.119, 166.008
Cohen, I. L. NYS Institute for Basic Research in Developmental Disabilities	ilcphd@gmail.com	163.142	Washington University School of Medicine		
Cohen, I. L. L. New York State Institute for Basic Research in Developmental Disabilities	ilcphd@gmail.com	107.105, 114.039	Conti, E.	econati@inpe.unipi.it	107.114
Col-Cozzari, G. University of Provence	g.cozzari@gmail.com	144.169	University of Pisa-Stella Maris Scientific Institute		
Colak, R. NE University, Meram Faculty of Medicine	rukicolak@gmail.com	142.091	Conturo, T. E. E.	tcanturo@yahoo.com	129.132
Colet, J. L. Beth Israel Deaconess Medical Center and Harvard Medical School	jcolet@bidmc.harvard.edu	167.003	Washington University		
Colombi, C. National Research Council of Italy	ccolombi@umich.edu	106.071, 151.004	Conway, C.	conway@ohsu.edu	130.160
Colpe, L. J. National Institute of Mental Health	lcolpe@mail.nih.gov	106.067	Oregon Health & Science University		
Colvert, E. SGDP, Institute of Psychiatry, King's College London	emma.colvert@iop.kcl.ac.uk	107.087, 144.145	Coo, H.	cooh@queensu.ca	106.043, 106.048
Coman, D. University of Miami	dcoman@psy.miami.edu	117.152, 143.127, 164.172	Queen's University		
Comijs, H. GGZ InGeest/Vu University Medical Center	h.comijs@ggzingeest.nl	161.053	Cook, A. E.	Anne.Cook@utah.edu	160.046
Conceicao, I. C. C. Instituto Nacional de Saúde Doutor Ricardo Jorge, Instituto Gulbenkian de Ciência, Center for Biodiversity, Functional & Integrative Genomics	inespcc@igc.gulbenkian.pt	140.041	University of Utah		
Congiu, S. Azienda Ospedaliera Brotzu	saracongiu@gmail.com	117.164	Cook, E. H. Jr.	ecook@psych.uic.edu	102.001, 147.001, 147.004
Conlon, M. A. CSIRO Food and Nutritional Sciences	michael.conlon@csiro.au	135.004	University of Illinois at Chicago		
			Cook, J. L.	jennifer.cook@ucl.ac.uk	141.044
			University College London, University of Cambridge		
			Cook, R.	Richard.Cook.1@city.ac.uk	141.062, 141.069
			City University London		
			Coon, H.	hilary.coon@utah.edu	148.001, 148.002, 148.003
			University of Utah		
			Cooper, M.	cooperm1@cardiff.ac.uk	161.060
			Cardiff University		
			Cooperrider, J. R. R.	jason.cooperrider@hsc.utah.edu	115.056, 115.062
			University of Utah		
			Corbett, B.	Blythe.Corbett@vanderbilt.edu	117.124
			Vanderbilt University		
			Corda, D.	daniele.corda@ifc.cnr.it	128.112
			Institute of Clinical Physiology, National Research Council (CNR)		
			Cordeaux, C.	cara.cordeaux@yale.edu	108.166, 115.063, 129.129, 156.002, 156.006
			Yale University		
			Cordero, J. F. F.	jose.cordero6@upr.edu	105.015
			UPR School of Public Health		
			Cordier, R.	reinie.cordier@jcu.edu.au	164.158
			James Cook University		
			Cormand, B.	bcormand@gmail.com	127.091
			University of Barcelona		
			Cormenzana, S.	susana.cormenzana@deusto.es	117.156
			Universidad de Deusto		
			Cornish, K.	kim.cornish@med.monash.edu.au	153.004
			School of Psychology, Psychiatry, & Psychological Medicine		
			Correia, C.	ccorreia@igc.gulbenkian.pt	140.041
			Instituto Gulbenkian de Ciência, Center for Biodiversity, Functional & Integrative Genomics, Instituto Nacional de Saúde Doutor Ricardo Jorge		
			Corrigan, N. M.	nevao@u.washington.edu	115.050
			University of Washington		
			Corsello, C.	ccorsello@ucsd.edu	107.075, 155.006
			University of California, San Diego		

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Cosenza, A. University of Pisa-Stella Maris Scientific Institute	acosenza@inpe.unipi.it	107.114	Cuccaro, M. L. University of Miami Miller School of Medicine	mcuccaro@med.miami.edu	127.078, 127.082
Costa, T. CCS fMRI, Koelliker Hospital, Turin, Italy	tommaso.costa@unito.it	115.052	Cuesta, J. L. Autismo Burgos	joseluiscuesta1@yahoo.es	128.115
Costagliola, A. La Universidad del Zulia	assunta352@hotmail.com	106.034	Cuevas, C. Yale Child Study Center	celine.cuevas@yale.edu	123.003
Costley, D. M. Autism Spectrum Australia (ASPECT)	dcostley@autismspectrum.org.au	130.144	Cukier, S. H. PANAAACEA	sebastiancukier@panaacea.org	106.063
Cottereau, E. Centre Hospitalier Regional Universitaire, Inserm UMR930	edouardcottereau@hotmail.fr	120.007	Curatolo, P. Univ. of Rome 'Tor Vergata'	curatolo@uniroma2.it	142.092
Couchon, E. IntegraGen Inc	elizabeth.couchon@integragen.com	107.086	Curie, A. Hospices Civils de Lyon, Université de Lyon and CNRS	aurorecurie@yahoo.fr	153.004
Coulter, R. A. A. Nova Southeastern University	staceyco@nova.edu	162.117	Curran, S. R. Kings College London	sarah.curran@kcl.ac.uk	107.087, 127.065
Courchesne, V. Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)	valerie.courchesne@gmail.com	160.033	Curtin, S. University of Calgary	scurtin@ucalgary.ca	117.176
Cousins, M. CanChild Centre for Childhood Disability Research	mcousin@mcmaster.ca	127.088	Cusco, I. Universitat Pompeu Fabra, The Centre for Biomedical Network Research on Rare Diseases (CIBERER), Instituto de Investigación Sanitaria IMIM-Hospital del Mar	ivon.cusco@upf.edu	127.085, 159.010
Couture, M. Centre de recherche Etienne LeBel	melanie.m.couture@usherbrooke.ca	164.170	Cuva, S. University of Trento	simone.cuva@unitn.it	117.150, 164.150
Cowan, C. A. Seattle Children's Hospital Autism Center	charles.cowan@seattlechildrens.org	107.079, 113.021	D		
Cox, A. W. Frank Porter Graham Institute, University of North Carolina - Chapel Hill	ann.cox@unc.edu	113.017	D'Almeida, V. King's College London, Institute of Psychiatry	vera.dalmeida@kcl.ac.uk	107.109, 108.149 108.175
Cox, D. J. University of Virginia	djc4f@virginia.edu	116.081	D'Elia, L. Paediatric Hospital Bambino Gesù	aidil_76@yahoo.it	124.026
Cox, I. A. Deakin University	iac@deakin.edu.au	117.143	D'Eramo, K. S. The Center for Children with Special Needs	kderamo@autismct.com	162.118
Cox, K. H. Massachusetts General Hospital, University of Virginia	kdh2b@virginia.edu	105.014	D'Souza, D. D. D. Birkbeck, University of London	dean.dsouza@ymail.com	163.140
Cox, N. J. University of Chicago	ncox@bsd.uchicago.edu	147.004	Da Fonseca, D. INCM, CNRS; Autism Resource Center	david.dafonseca@mail.ap-hm.fr	144.169
Cox, N. B. B. Curry School of Education at the University of Virginia	neillbroderick@gmail.com	116.081, 137.027, 161.072	Dager, S. University of Washington	srd@u.washington.edu	115.050
Cox, S. M. University of Virginia	smc4cg@virginia.edu	116.081	Dale, N. J. Great Ormond Street Hospital NHS Foundation Trust	naomi.dale@gosh.nhs.uk	160.017
Craft, L. D. University of Alabama	lydia.d.craft@gmail.com	124.028	Dale, P. S. University of New Mexico	dalep@unm.edu	127.089
Crais, E. University of North Carolina at Chapel Hill	bcrais@med.unc.edu	143.118	Daley, T. C. C. Westat	TamaraDaley@westat.com	113.005, 113.016, 165.003
Crawford, E. L. Vanderbilt University	emily.crawford@vanderbilt.edu	147.004	Dalman, C. Karolinska Institutet	christina.dalman@ki.se	104.004
Crawley, J. M.I.N.D. Institute, University of California, Davis	jacqueline.crawley@ucdmc.ucdavis.edu	105.006	Daluwatte, C. L. L. University of Missouri	cldc82@mail.missouri.edu	117.110, 142.089
Crea, K. N. Olga Tennison Autism Research Centre	kn2crea@students.latrobe.edu.au	110.004	Dalvit, I. University of Trento	ilaria.dalvit@gmail.com	117.150
Creswell, C. University of Reading	c.creswell@reading.ac.uk	161.075	Daly, E. King's College London, Institute of Psychiatry	eileen.daly@kcl.ac.uk	107.109, 108.146, 108.149, 108.175, 156.001
Crifaci, G. Institute of Clinical Physiology, National Research Council	giuliacrifaci@gmail.com	103.005, 106.071	Daly, M. J. Broad Institute	mjdaly@chgr.mgh.harvard.edu	127.072
Crittendon, J. A. Vanderbilt Kennedy Center	julie.a.davidson@vanderbilt.edu	107.096, 111.004, 128.099	Damiano, C. R. University of North Carolina at Chapel Hill	cdamiano@email.unc.edu	108.130
Croen, L. A. Kaiser Permanente Division of Research	Lisa.A.Croen@kp.org	104.003, 106.046, 106.054, 106.060, 106.063, 127.092 159.007, 159.008	Damiano, M. Istituto Italiano di Tecnologia Center for Nanotechnology Innovation @NEST	mario.damiano@live.com	133.008
Crowell, C. R. University of Notre Dame	ccrowell@nd.edu	128.104, 162.121	Dammann, A. University of Notre Dame	adammann@nd.edu	130.172, 143.130
Crum, R. M. Johns Hopkins Bloomberg School of Public Health	rcrum@hsph.edu	160.031	Danckaert, A. Institut Pasteur	anne.danckaert@pasteur.fr	127.070
Cubells, J. F. Emory Autism Center	jcubell@emory.edu	140.040	Dang, T. University of Texas Medical School, Rice University	ttd1@rice.edu	161.065

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Dankner, N. National Institute of Mental Health	danknern@gmail.com	115.058	De la Marche, W. University of Leuven (KU Leuven), Openbaar Psychiatrisch Zorgcentrum Geel	wouter.delamarche@uz.kuleuven.ac.be	117.116
Dapretto, M. University of California, Los Angeles	mirella@loni.ucla.edu	129.123, 134.005	de Marchena, A. B. University of Connecticut, Musicaycolor Child Psychology Music Therapy Center	ashley.de_marchena@uconn.edu	141.048
Darcy Mahoney, A. Emory University Nell Hodgson Woodruff School of Nursing	Ashley.darcy@emory.edu	106.036	de Paula, C. Mackenzie Presbyterian University	csilvestrep09@gmail.com	106.052
Darus, N. School of Medical Sciences, Newcastle University	n.darus@ncl.ac.uk	117.149	de Rooter, J. A. A. Leiden University	jannekeadruiter@gmail.com	161.083
Das, S. Montreal Neurological Institute, McGill University	samir@bic.mni.mcgill.ca	128.119	de Rooter, S. W. Radboud University Medical Centre, Donders Institute for Brain, Cognition and Behavior	S.W.deRuiter@psy.umcn.nl	145.004
Datko, M. University of California San Diego	mikedatko@gmail.com	115.064	de Sonnevill, L. M. J. Leiden University	LdeSonneville@fsw.leidenuniv.nl	145.001, 164.160, 166.003
Davey Smith, G. University of Bristol	KZ.Davey-Smith@bristol.ac.uk	140.038	de Vries, M. University of Amsterdam	m.devries@uva.nl	144.175
David, N. University Medical Center Hamburg-Eppendorf	ndavid@uke.de	123.009, 160.029	de Vries, P. University of Cape Town	petrus.devries@uct.ac.za	116.093
Davidovitch, M. Maccabi Healthcare Services	davidom@netvision.net.il	107.091	Dean, M. University of California, Los Angeles	michcdean@gmail.com	109.001, 130.174
Davidson, D. Loyola University Chicago	ddavids@luc.edu	117.154	Deen, B. Massachusetts Institute of Technology	bdeen@mit.edu	108.155
Davies, I. University of Cambridge	Ian.Davies@cl.cam.ac.uk	128.102	Deering, H. Iowa State University	hjhunt@iastate.edu	117.128
Davies, K. R. Birkbeck, University of London	k.davies@bbk.ac.uk	134.008	Degroote, S. Université de Sherbrooke	stephanie.degroote@usherbrooke.ca	105.022
Davies, M. Griffith University	m.davies@griffith.edu.au	113.025	DeJong, M. Great Ormond Street Hospital	margaret.dejong@gosh.nhs.uk	164.151
Davignon, M. N. N. Children's Hospital of Philadelphia	nortonm@email.chop.edu	116.078, 116.079	Dekker, L. P. Erasmus MC - Sophia's Childrens Hospital	l.p.dekker@erasmusmc.nl	167.002
Davis, L. K. University of Chicago	lea.k.davis@gmail.com	147.004	Del Rosario, M. University of California, Los Angeles	mmithi@ucla.edu	117.126, 138.032
Davis, T. T. University of North Carolina School of Medicine	ttDavis@email.unc.edu	105.021	Delahaye, J. Massachusetts General Hospital	jdelahaye@partners.org	142.110
Dawkins, T. University of North Carolina	tamara.dawkins@mail.mcgill.ca	107.112	Delatycki, M. Austin Health	Martin.DELATYCKI@austin.org.au	160.027
Dawson, G. Autism Speaks, UNC Chapel Hill	gdawson@autismspeaks.org	110.005, 143.126, 157.004	Delmonte, S. Trinity College Dublin	sdelmont@tcd.ie	115.049, 115.057
Dawson, M. Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)	naamichelle@yahoo.ca	160.033, 164.161	Delorme, R. Hôpital Robert Debré	richard.delorme@rdb.aphp.fr	111.007, 115.074, 127.070
Day, T. N. University of Pittsburgh ACE	taylornday@gmail.com	161.087	DeLuca, T. F. Harvard Medical School	Todd_DeLuca@hms.harvard.edu	127.090
De Bruijn, Y. G. E. Karakter Child and Adolescent Psychiatry University Centre Nijmegen	Y.debruijn@karakter.com	145.003	DeLussey, C. M. The Children's Hospital of Philadelphia	delusseyc@email.chop.edu	115.066, 129.125, 161.080, 161.081
de Bruin, E. I. University of Amsterdam	e.i.debruin@uva.nl	161.078	Delves, K. University of Melbourne	kdelves@unimelb.edu.au	117.119
de Bruine, M. Leiden University	mariekedebruine@hotmail.com	161.083	Delwiche, L. UC Davis	lldelwiche@phs.ucdavis.edu	104.006, 119.003
De Busk, K. University of Edinburgh	kendrapad@yahoo.com	141.054	Demany, L. Université de Bordeaux	Laurent.Demany@psyc.u-bordeaux2.fr	126.044
De Coster, L. Ghent University	lize.decoster@ugent.be	125.038	Dempsey, I. University of Newcastle	Ian.Dempsey@newcastle.edu.au	143.133
De Felice, C. University Hospital of Siena AOUS	geniente@gmail.com	135.002	Dempsey, J. Baylor College of Medicine/ Texas Children's Hospital	jrdepse@texaschildrens.org	160.043
De Filippis, B. Istituto Superiore di Sanità	bianca.defilippis@iss.it	105.020	Demurie, E. Ghent University	ellen.demurie@ugent.be	160.041
de Jonge, M. V. Rudolf Magnus Institute of Neuroscience, University Medical Center Utrecht	m.v.jonge@umcutrecht.nl	165.001	Dennis, E. L. University of California, Los Angeles	eldennis@ucla.edu	129.123
De La Harpe Golden, D. King's College London	daniel.delaharpe.golden@gmail.com	126.041	Deoni, S. C. Brown University	sdeoni@mac.com	108.175
			Depino, A. M. M. IFIByNE, UBA-CONICET	amaicha.depino@gmail.com	105.008
			Deprey, J. Massachusetts Institute of Technology	jean.deprey@gmail.com	128.111

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Dereu, M. Ghent University	mieke.dereu@ugent.be	160.041, 164.165	DiMartino, A. NYU Child Study Center		149.002
DeRosa, B. A. University of Miami, Miller School of Medicine	bderosa@med.miami.edu	127.082	Ding, X. H. New York State Institute for Basic Research in Developmental Disabilities	Xiao-Hua.Ding@opwdd.ny.gov	142.095
Deruelle, C. INCM, CNRS	deruelle@incm.cnrs-mrs.fr	144.169	Dinsmore, A. P. P. Institute of Education	a.dinsmore@ioe.ac.uk	116.096
des Portes, V. Hospices Civils de Lyon, Université de Lyon and CNRS UMR 5230 (L2C2)	vincent.desportes@chu-lyon.fr	153.004	Dipierro, M. T. Autism Treatment and Research Center "Una Breccia nel Muro"	mariateresa.dipierro@unabrecciainelmuro.it	143.120
Desachy, G. UCSF	guillaume.desachy@ucsf.edu	127.092	Discenza, M. Boston University School of Medicine		107.086
Desai, A. Yale Child Study Center	aishani.desai@yale.edu	136.018	Dissanayake, C. La Trobe University	c.dissanayake@latrobe.edu.au	107.084, 107.099, 110.004, 151.001, 151.002, 160.036, 168.006
Desai, M. U. Yale University	desaimu@gmail.com	113.003	Divan, G. Sangath	gaurdivan@gmail.com	113.003
Desai, S. University of California San Francisco	desais@neuropeds.ucsf.edu	108.156, 126.057, 129.128	Dixon, E. National Institutes of Health	euniceedixon@gmail.com	144.159
DeSanctis, J. University of Rochester	jdesanctis@psych.rochester.edu	123.018, 126.047	Dobkin, C. New York State Institute for Basic Research in Developmental Disabilities	Carl.Dobkin@opwdd.ny.gov	142.095
Deshmukh, V. B. B. The INCLIN Trust International	vaishali@inclintrust.org	107.124, 107.125, 111.002, 158.004	Dodero, L. Istituto Italiano di Tecnologia Center for Nanotechnology Innovation @NEST	l.dodero86@gmail.com	133.008
Deshpande, H. D. University of Alabama at Birmingham	vonrishi@uab.edu	108.167	Doherty, D. University of Washington	ddoher@u.washington.edu	155.008
Devine, O. Centers for Disease Control and Prevention	odevine@cdc.gov	106.053	Dolan, B. Marquette University	bridget.dolan@mu.edu	122.006, 130.142
Devlin, B. University of Pittsburgh	devlinbj@pitt.edu	127.072, 150.001, 150.002, 150.003, 150.004	Dombroski, B. A. University of Louisville	badomb01@louisville.edu	115.071, 162.116
Dewaele, N. L. Ghent University	nele.dewaele@ugent.be	160.041	Doneddu, G. S. Centro Disturbi Pervasivi dello Sviluppo Azienda Ospedaliera Brotzu	giuseppe.doneddu@tiscali.it	113.024, 117.117, 117.164, 123.002, 140.037
Dhariwal, M. Mad Rat Games, National Institute of Design R&D Campus	manuj@MadRatGames.com	128.109	Donelan, K. Massachusetts General Hospital	kdonelan@partners.org	132.006
Dhossche, D. M. University of Mississippi Medical Center	ddhossche@umc.edu	161.061	Dong, H. University of California at Los Angeles	hmdong@ucla.edu	133.005
Di Gangi, V. University of Padua	valentina.digangi@gmail.com	163.136	Dong, S. Yale University School of Medicine	shan.dong@yale.edu	150.001
Di Martino, A. NYU Langone Medical Center Child Study Center	adriana.dimartino@nyumc.org	108.159	Donkers, F. C. University of North Carolina at Chapel Hill, Tilburg University	franc_donkers@med.unc.edu	123.015
Di Rezze, B. M. M. McMaster University	direzzeb@mcmaster.ca	127.088	Doobay, V. M. M. Perceptual Neuroscience Laboratory for Autism and Development (PNLab), McGill University	victoria.doobay@gmail.com	126.051, 144.137, 144.147
Diano, M. CCS fMRI, Koelliker Hospital, Turin, Italy	matteo.diano@unito.it	115.052	Dorado, M. L. Child and Adolescent Psychiatry Department, CIBERSAM, Instituto de Investigación Sanitaria Gregorio Marañón, IISGM. Hospital General Universitario Gregorio Marañón	marialuisa_dorado@yahoo.es	116.104
Díaz-Beltrán, L. Universidad de Jaen	ldiazbel@ujaen.es	127.094	dos Santos, C. Université François Rabelais de Tours; Unité "Imagerie et Cerveau" Inserm UMR 930, CNRS ERL 3106; Tours, France	christophe.dossantos@univ-tours.fr	117.127
Diaz-Stransky, A. Kennedy Krieger Institute, Johns Hopkins University School of Medicine	andreadiazstransky@gmail.com	115.053, 129.130	Dos Santos, S. Georgetown University	alentadorasp99@yahoo.com	113.010
Dichter, G. S. University of North Carolina	dichter@biac.duke.edu	108.130	Dougherty, J. Washington University	jdougherty@genetics.wustl.edu	105.009, 127.062, 127.076
DiCicco-Bloom, E. Robert Wood Johnson Medical School	diccem@umdnj.edu	105.013, 105.016	Dougherty, R. F. Stanford University	bobd@stanford.edu	156.003
Dickerson, A. S. The University of Texas School of Public Health at Houston,	Aisha.S.Dickerson@uth.tmc.edu	104.005	Douglas, S. University of Melbourne	sdouglas@unimelb.edu.au	117.119
Diehl, J. J. J. University of Notre Dame	joshua.diehl@nd.edu	116.107, 128.104, 130.172, 143.130, 162.121	Dowd, A. Yale University School of Medicine	alexandra.dowd@yale.edu	134.001, 134.002, 138.031
Dijk, S. C. V. UMC Utrecht department of Psychiatry	S.C.vanDijk-6@umcutrecht.nl	127.081			
Dijkstra, T. Radboud University Nijmegen	t.dijkstra@donders.ru.nl	136.020			
Dillen, C. University of Leuven, Department of Neurosciences,	claudia.dillen@ppw.kuleuven.be	144.154			
Dillon, A. R. Pacific Graduate School of Psychology	ashleyrdillon@gmail.com	154.002			

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Dowell, L. E. Oberlin College	leslie.e.dowell@vanderbilt.edu	126.046	Edden, R. A. The Johns Hopkins University, Kennedy Krieger Institute	raee2@jhu.edu	123.010
Doyle-Thomas, K. A. R. Bloorview Research Institute	kdoylethomas@hollandbloorview.ca	115.070, 115.072, 115.075, 129.133, 129.135, 149.001	Edelson, S. M. Autism Research Institute	smedelson@gmail.com	162.116
Dritschel, B. University of St Andrews	bd9@st-andrews.ac.uk	141.081	Edgar, J. C. Children's Hospital of Philadelphia	edgarj@email.chop.edu	123.016, 129.131
Druckman, S. University of Miami	s.druckman@umiami.edu	117.174	Edwards, L. A. Harvard University, Boston Children's Hospital	laura.edwards@childrens.harvard.edu	158.003
Drumm, E. E. University of Toronto	ellen.drumm@gmail.com	126.058	Egan, R. Carnegie Mellon University	behrmannlab@gmail.com	144.171
Duca, S. CCS fMRI, Koelliker Hospital, Turin, Italy	sergio.duca@unito.it	115.052	Egan, S. M. The Center for Children with Special Needs	segan@autismct.com	130.170
Dudley, C. University of Calgary	rolandcare@yahoo.ca	116.085, 116.102	Egerton, J. D. University of Washington	jegertso@uw.edu	155.008
Duerden, E. G. The Hospital for Sick Children	emma.duerden@sickkids.ca	149.001	Eichler, E. E. University of Washington, Howard Hughes Medical Institute	eee@gs.washington.edu	155.008
Dufek, S. University of California, San Diego	sdufek@ucsd.edu	116.105	Eigsti, I. M. University of Connecticut	inge-marie.eigsti@uconn.edu	112.005, 141.048, 144.169, 156.004, 160.019, 160.034, 166.002
Duhaime, S. Autism Ontario, The Redpath Centre	sarah@autismontario.com	142.097	Eijkemans, R. J. Brain Centre Rudolf Magnus	M.J.C.Eijkemans@umcutrecht.nl	127.065
Duketis, E. Goethe-University	eftichia.duketis@kgu.de	127.073	Einfeld, S. L. University of Sydney	stewart.einfeld@sydney.edu.au	116.077, 130.144, 161.071, 162.101, 164.158, 164.178
Duku, E. Oxford Centre for Child Studies & McMaster University	duku@mcmaster.ca	102.007, 110.001, 112.003, 121.008	Einhäuser, W. Philipps-University Marburg	wet@physik.uni-marburg.de	108.134
Dumas, G. CNRS UMR 7225, UPMC, INSERM U975, ICM	dumas@ccs.fau.edu	108.174	Eisenberg, I. National Institute of Mental Health	ian.eisenberg@mail.nih.gov	161.089
Dunbar, S. Nova Southeastern University	sdunbar@nova.edu	162.117	Eisenhower, A. University of Massachusetts Boston	abbey.eisenhower@umb.edu	113.031
Dunlap, K. Duke University	kaiti.dunlap@gmail.com	108.130	Eklund, H. Institute of Psychiatry, King's College London	hanna eklund@kcl.ac.uk	132.003
Duong, T. Deakin University	thi.duong@deakin.edu.au	128.117	El-Baz, A. S. University of Louisville	aselba01@louisville.edu	113.027, 115.071
Duque, F. Hospital Pediátrico Carmona da Mota (HP)-Centro Hospitalar e Universitário de Coimbra (CHUC)	fredericoduque@chc.min-saude.pt	140.041, 154.006, 160.042, 162.104	Elias, R. University of California, Berkeley	mail.relias@gmail.com	137.029
Durante, G. R. University of North Carolina at Chapel Hill	gdurante@live.unc.edu	117.131	Eliez, S. University of Geneva Medical School	stephan.eliez@unige.ch	108.177
Durens, M. T. Robert Wood Johnson Medical School	durensmt@umdnj.edu	105.016	Ellegood, J. The Hospital for Sick Children	jacob@phenogenomics.ca	115.061
Durham, P. University of Miami	p.durham@umiami.edu	117.152	Ellingsen, R. University of California Los Angeles	ruth.ellingsen@gmail.com	130.138, 141.080, 154.001, 154.002, 154.004
Durkin, M. University of Wisconsin-Madison	mdurkin@wisc.edu	106.032, 106.053, 152.001	Ellis-Weismer, S. University of Wisconsin-Madison	ellisweismer@wisc.edu	117.140
Durocher, J. S. S. University of Miami	jstella@miami.edu	117.175	Eloyan, A. Johns Hopkins Bloomberg School of Public Health	aeloyan@jhsph.edu	108.170
Durston, S. Rudolf Magnus Institute of Neuroscience, University Medical Center Utrecht	S.Durston@umcutrecht.nl	127.081	Elsabbagh, M. McGill University	mayada.elsabbagh@mcgill.ca	102.007, 107.089, 113.009, 113.020, 116.093, 127.068, 134.007, 134.008, 136.010, 146.001, 163.132
Duvall, S. W. Oregon Health & Science University	duvall@ohsu.edu	161.055	Emanuele, E. University of Pavia	enzo.em@libero.it	107.117
Dykxhoorn, D. M. University of Miami Miller School of Medicine	ddykxhoorn@med.miami.edu	127.082	Emery, J. H. University of Calgary	hemery@ucalgary.ca	116.085, 116.102, 132.008
E			Emin, C. University of Oxford	charity.emin@hotmail.co.uk	114.033, 115.059
Ebeling, H. University and University Hospital of Oulu	hanna.ebeling@oulu.fi	161.093, 162.114	Emsley, R. University of Manchester	richard.emsley@manchester.ac.uk	104.001, 164.167
Eberly, H. E. Vanderbilt Undergraduate Neuroscience Program	haley.eberly@vanderbilt.edu	168.002	Enard, W. Max Planck Institute for Evolutionary Anthropology	enard@eva.mpg.de	105.010
Ecker, C. Institute of Psychiatry	christine.ecker@kcl.ac.uk	107.109, 108.146, 108.149, 108.175, 156.001	Engel, A. K. University Medical Center Hamburg-Eppendorf	ak.engel@uke.de	123.009
Eckhardt, M. Massachusetts Institute of Technology, The Media Laboratory	micahrye@MIT.EDU	128.106			

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Ennis, C. University of Wisconsin	chad.m.ennis@gmail.com	164.162	Evron, Y. Tel Hashomer, Safra Children's hospital	Evron-ya@zahav.net.il	162.111
Ensenat, V. M. British Hospital of Buenos Aires, PANAACEA	vivianaensenat@gmail.com	106.063	Ey, E. Institut Pasteur	elodie.ey@pasteur.fr	133.001
Entwistle, K. UCL, Department of Clinical Psychology	kirsty.entwistle.10@ucl.ac.uk	127.096	F		
Eran, B. Bait Echad Center, The Association for Children at Risk	oberan@mcc.org.il	130.155	Fabbri, A. Istituto Superiore di Sanità	ale@yahoo.it	105.020
Erdélyi, F. Institute of Experimental Medicine	erdelyi@koki.hu	105.026	Fabio, R. A. Università di Messina	rafabio@unime.it	103.005
Eriksen, W. T. University of Pennsylvania School of Nursing	Weriksen@nursing.upenn.edu	142.105, 164.159	Fadda, R. University of Cagliari	robadda@unica.it	117.117, 117.164, 123.002, 140.037
Eriksson, J. M. Karolinska Institutet	jonna.eriksson@gmail.com	160.047	Fagel, S. Leiden University, Faculty of Social Sciences	SFagel@fsw.leidenuniv.nl	166.003
Eriksson, K. Tampere University Hospital	kai.eriksson@pshp.fi	143.134	Faggiani, E. Neurological Institute Foundation Carlo Besta	elisa.faggiani@istituto-besta.it	120.001
Erreger, K. B. Vanderbilt University	kevin.erreger@vanderbilt.edu	127.064	Fahnestock, M. McMaster University	fahnest@mcmaster.ca	135.003
Erritzoe, D. Imperial College London	d.erritzoe@imperial.ac.uk	108.151	Fahrenfort, J. J. University of Amsterdam	j.j.fahrenfort@uva.nl	123.006
Ersalesi, N. New York State Institute for Basic Research in Developmental Disabilities	nicole.d.ersalesi@opwdd.ny.gov	142.095	Fair, D. A. Oregon Health & Science University	faird@ohsu.edu	161.055, 167.006
Erviti, M. Université de Bordeaux	erviti.maialen@gmail.com	126.044	Falck-Ytter, T. Center of Neurodevelopmental Disorders at Karolinska Institutet (KIND), Uppsala University	terje.falck-ytter@ki.se	146.003
Escudero, P. MARCS Institute, University of Western Sydney	paola.escudero@uws.edu.au	137.029	Falk, T. H. Institut National de la Recherche Scientifique (INRS-EMT) University of Quebec	falk@emt.inrs.ca	117.132
Esler, A. N. N. University of Minnesota	amy.esler@gmail.com	117.134	Falkmer, M. Curtin University	Marita.Falkmer@curtin.edu.au	117.142
Esposito, M. Autism Treatment and Research Center "Una Breccia nel Muro"	marco.esposito@unabreccianelmuro.it	143.120	Falkmer, T. Curtin University	t.falkmer@curtin.edu.au	117.142
Estabillio, J. A. UCSD & Rady Children's Hospital	jestabillio@ucsd.edu	155.006	Fallin, M. D. Johns Hopkins School of Public Health	dfallin@jhsp.edu	106.046, 155.004, 159.007, 159.008
Esteban, F. J. University of Jaen	festeban@ujaen.es	127.094	Falter, C. University of Groningen	c.m.falter@rug.nl	122.001
Esteban Manjón, B. University of Salamanca	blanca.esteban@usal.es	104.007	Fan, Y. Guangzhou Rehabilitation & Research Center for Children with ASD	fanyb@163.com	144.173
Estes, A. University of Washington	estesa@u.washington.edu	115.050, 134.006, 143.126, 143.131, 157.004	Fañanas, L. Universitat de Barcelona. Unitat d'Antropologia, Facultat de Biologia	lfananas@ub.edu	127.066
Ettinger, D. Oregon Health & Science University	ettinger@ohsu.edu	161.055	Fanari, R. University of Cagliari	rfanari@unica.it	117.117
Eussen, M. Yulius Mental Health Organization	m.eussen@yulius.nl	161.078	Farach, F. Prometheus Research, LLC	frank@prometheusresearch.com	128.120, 128.121
Evans, A. C. McGill University	alan.evans@mcgill.ca	115.041, 115.051, 115.070, 115.072, 115.075, 128.119, 129.124, 129.133, 129.135	Farley, M. University of Utah	megan.farley@hsc.utah.edu	107.081, 148.001, 148.002, 148.003, 148.004, 160.046
Evans, C. Prometheus Research, LLC	cce@prometheusresearch.com	128.122	Farroni, T. University of Padua	teresa.farroni@unipd.it	163.136
Evans, D. M. University of Bristol	dave.evans@bristol.ac.uk	140.038	Fatjo-Vilas, M. Universitat de Barcelona. Unitat d'Antropologia, Facultat de Biologia	mar.fatjovilas@ub.edu	127.066
Evans, D. W. Bucknell University, Geisinger Health System	dwevans@bucknell.edu	127.061, 161.084	Faure, P. CNRS UMR 7102/Université P. & M. Curie	philippe.faure@snv.jussieu.fr	133.001
Evans, G. Central Manchester University Hospitals NHS Foundation Trust	mailto:Gareth.Evans@cmft.nhs.uk	104.001	Fava, L. Autism Treatment and Research Center "Una Breccia nel Muro"	leonardo.fava@unabreccianelmuro.it	143.120
Evans-Smith, B. Rush University Medical Center	bernadette_evans-smith@rush.edu	117.155	Fecho, G. Nova Southeastern University	fecho@nova.edu	162.117
Evers, K. University of Leuven	kris.evers@psy.kuleuven.be	141.070	Fedele, A. Autism Speaks	afedele@autismspeaks.org	107.092
Evron, J. Sheba Medical Center, Weinberg Child Development Center, Israel	calevet@walla.com	143.116			

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Fein, D. A. University of Connecticut	deborah.fein@uconn.edu	106.061, 107.116, 111.006, 112.002, 112.005, 156.004, 160.019, 160.034, 164.155, 166.002	Fitch, A. H. University of Connecticut	alihfitch@gmail.com	112.005
Feinberg, A. P. P. Johns Hopkins University	afeinberg@jhu.edu	106.046, 155.004, 159.007	Fitzgerald, J. E. Trinity College Dublin	fitzgeje@tcd.ie	108.128
Feinberg, J. I. Johns Hopkins University	jfeinbe2@jhu.edu	106.046	Fitzgerald, R. Washington University School of Medicine	fitzgerr@psychiatry.wustl.edu	106.037
Feineis-Mathews, S. Goethe University		124.020	Fitzpatrick, A. L. University of Washington	fitzpal@u.washington.edu	143.126, 143.131, 157.004
Feinstein, C. Stanford University	carlf@stanford.edu	149.004	Fitzpatrick, E. Bruce Lefroy Centre for Genetic Health Research, MCRI	elizabeth.fitzpatrick@mcri.edu.au	160.027
Fekadu, A. Addis Ababa University	abe.wassie@kcl.ac.uk	113.008	Fitzpatrick, M. K. K. UCLA PEERS Clinic, The Help Group-UCLA Autism Research Alliance	mkathryn.fitzpatrick@gmail.com	117.158
Feldman, L. M. M. The Hebrew University of Jerusalem	laura.malki@mail.huji.ac.il	127.060	Flanagan, H. E. E. IWK Health Centre	hflanagan1@gmail.com	143.123
Feldman, M. A. Brock University	mfeldman@brocku.ca	160.032	Flanagan, T. McGill University	tara.flanagan@mcgill.ca	116.086, 116.090
Feldman, R. Bar-Ilan University	feldman.ruth@gmail.com	117.159, 156.002	Flavin, M. Queen's University	mf6@queensu.ca	106.048
Feng, H. University of Denver	howardfeng@yahoo.cn	130.161	Fletcher, P. T. University of Utah	fletcher@sci.utah.edu	115.056
Ference, J. D. D. University of Calgary	jennifer.ference@gmail.com	117.176	Fletcher, R. University of Newcastle	Richard.Fletcher@newcastle.edu.au	143.133
Ferguson, B. J. University of Missouri-Columbia	fergusonbj@health.missouri.edu	115.065, 142.112	Fletcher-Watson, S. University of Edinburgh	sue.fletcher-watson@ed.ac.uk	162.122
Ferguson, M. A. University of Utah School of Medicine	neuromichael@gmail.com	115.056	Fleury, V. University of North Carolina at Chapel Hill	pamparov@yahoo.com	113.030
Fernandes, J. Birkbeck, University of London, UK	j.fernandes@bbk.ac.uk	163.132	Floesser, A. Neuroscience Clinical Sciences and Innovation, Novartis Institutes for Biomedical Research, Novartis Pharma AG	annette.floesser@novartis.com	153.004
Fernandez, L. Sant Joan de Déu Hospital	lfernandezg@hsjdbcn.org	136.016	Flor, J. University of Arkansas for Medical Sciences	jmflo@uams.edu	160.040
Ferrante, A. Istituto Superiore di Sanità	antonella.ferrante@iss.it	105.025	Flores, H. McGill University	heidi.flores@mail.mcgill.ca	144.162
Ferrari, A. R. Stella Maris Scientific Institute	arferrari@inpe.unipi.it	142.102	Flores, J. University of Notre Dame	jflores5@nd.edu	162.121
Ferré, S. Université François Rabelais de Tours; Unité "Imagerie et Cerveau" Inserm UMR 930, CNRS ERL 3106; Tours, France	sandriner.ferre@univ-tours.fr	117.127	Floris, D. L. L. Autism Research Centre	dori.floris@googlemail.com	115.042
Ferreri, S. J. Michigan State University	sferreri@msu.edu	124.034	Florou, I. EPSYPEA	florou19@yahoo.co.uk	117.111, 124.023
Ferretti, L. Azienda Ospedaliera Brotzu	ferretluca@gmail.com	117.164	Flory, M. J. NYS Institute for Basic Research in Developmental Disabilities	Michael.flory@opwdd.ny.gov	114.039
Ferro, M. "Antonio Zampolli" Institute for Computational Linguistics	marcello.ferro@ilc.cnr.it	106.071	Fombonne, E. Montreal Children's Hospital	fombonne@ohsu.edu	102.007, 110.001, 112.003, 113.020, 121.008, 142.103, 161.055, 164.170, 167.006
Ferrone, C. Massachusetts General Hospital	cferrone2@partners.org	142.107	Fonagy, P. University College London, Baylor College of Medicine	p.fonagy@ucl.ac.uk	122.007
Fidler, D. Colorado State University	Deborah.Fidler@ColoState.EDU	160.030	Fonlupt, P. INSERM U1028	pierre.fonlupt@inserm.fr	108.126
Field, R. I. Drexel University	rif24@drexel.edu	132.002	Forgeot d'Arc, B. Centre de Recherche en Santé Mentale de l'Université de Montréal, Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM)	b.forgeot@gmail.com	141.088
Field, S. Frank Porter Graham Child Development Institute, University of North Carolina at Chapel Hill	samuel_field@email.unc.edu	143.118	Formica, D. Università Campus Bio-Medico	d.formica@unicampus.it	117.137
Filliter, J. H. Dalhousie University	filliter@dal.ca	144.158	Forness, S. R. UCLA	paparella@ucla.edu	161.076
Findon, J. Institute of Psychiatry, King's College London	james.findon@kcl.ac.uk	132.003	Forns, J. Centre for Research in Environmental Epidemiology (CREAL)	jforns@creal.cat	106.072
Fink, G. R. Research Center Jülich, University Hospital Cologne	g.r.fink@fz-juelich.de	108.142	Forsberg, H. Karolinska Institutet	Hans.Forsberg@ki.se	115.043
Finnemann, J. J. J. University College London, University of Cambridge	jjf33@cam.ac.uk	141.073	Forsyth, K. Queen Margaret University	KForsyth@qmu.ac.uk	107.119, 107.120, 107.121
Fiorentini, C. Istituto Superiore di Sanità	ccf@hotmail.com	105.020			
Fisher, S. E. Max Planck Institute for Psycholinguistics	Simon.Fisher@mpi.nl	105.010			

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Foscoliano, M. Azienda Ospedaliera Brotzu	mariafoscoliano@gmail.com	117.117	Frye, R. E. E. Arkansas Children's Hospital Research Institute	refrye@uams.edu	120.003, 142.098
Foss-Feig, J. H. Yale University	jennifer.h.foss-feig@vanderbilt.edu	126.046, 136.012	Fu, W. University of Washington	wqfu@uw.edu	155.008
Foster, N. E. McGill University	autism-insar.org@wefunkradio.com	115.070, 115.072, 115.075, 129.133, 129.135, 129.136	Fuentes, J. Policlinica Gipuzkoa	fuentes.j@telefonica.net	114.037
Foundas, A. L. Louisiana State University Health Sciences Center-N.O.	anne.foundas@gmail.com	164.154	Fujino, H. Tokyo Gakugei University	hfujino@u-gakugei.ac.jp	141.051
Fountain, C. Fordham University	cfountain1@fordham.edu	104.002	Fulda, S. Goethe-University	Simone.Fulda@kgu.de	127.073
Fourie, E. University of California San Francisco	efourie@princeton.edu	129.128	Fung, D. Institute of Mental Health	daniel_fung@imh.com.sg	161.067, 161.099
Fowler, D. J. University of Sussex	d.fowler@sussex.ac.uk	144.153	Fung, D. S. S. Duke-NUS Graduate Medical School, Nanyang Technological University, Institute of Mental Health	daniel_fung@imh.com.sg	161.073
Fox, S. Boston Children's Hospital	sefoxy@gmail.com	108.135	Furlanello, C. Fondazione Bruno Kessler	furlan@fbk.eu	127.087
Foxe, J. J. The Sheryl and Daniel R. Tishman Cognitive Neurophysiology Laboratory, Albert Einstein College of Medicine	john.foxe@einstein.yu.edu	122.004, 123.012	Furlano, R. Queen's University	7rf@queensu.ca	144.177, 164.169
France Stiglic, A. Clinical Institute of Clinical Chemistry and Biochemistry	alenka.stiglic@kcj.si	106.051	Furlong, M. University of North Carolina at Chapel Hill	melissa_furlong@med.unc.edu	103.001
Franchitto, L. CHU de Toulouse	franchitto.l@chu-toulouse.fr	128.118	Fusar Poli, E. Fondazione IRCCS Istituto Nazionale dei Tumori	elena.fusarpoli@istitutotumori.mi.it	120.001
Frank, K. H. Vanderbilt Kennedy Center	kim.frank@vanderbilt.edu	113.029	Fusaroli, R. Aarhus University, Aarhus University Hospital	fusaroli@gmail.com	117.125
Frank, M. J. Brown University	Michael_Frank@brown.edu	108.171	Fyfield, R. Cardiff University	fyfieldr1@cardiff.ac.uk	117.165
Franke, B. Radboud University Medical Centre, Donders Institute for Brain, Cognition and Behavior, Department of Human Genetics, Radboud University Medical Centre	B.Franke@antrg.umcn.nl	145.003	G		
Fransson, P. Karolinska University Hospital	Peter.Fransson@ki.se	115.043	Gabis, L. Tel Aviv University	gabis@post.tau.ac.il	106.038, 143.116, 162.111
Frazier, T. W. Cleveland Clinic Lerner College of Medicine	fraziet2@ccf.org	102.006, 108.176, 157.007	Gabriele, S. University Campus Bio-Medico	s.gabriele@unicampus.it	106.059
Freeman, K. Oregon Health & Science University	freemank@ohsu.edu	161.055	Gabrielsen, T. P. P. Center for Autism Research	Terisa.P.Gabrielsen@utah.edu	107.081, 116.078
Freeman, S. F. UCLA	sfreeman@mednet.ucla.edu	161.076	Gaddour, N. University of Monastir	naoufel@gmx.net	137.026
Freeman, T. University of Notre Dame	tfreema2@nd.edu	162.121	Gadelha, A. A. Jr. Federal University of São Paulo	aryararipe@yahoo.com.br	106.052
Freeston, M. H. Newcastle University	mark.freeston@newcastle.ac.uk	161.051, 161.084, 166.005	Gadomski, T. E. Autism Discovery Institute	tgadomski@ucsd.edu	155.006
Freeth, M. University of Sheffield	m.freeth@sheffield.ac.uk	160.018	Gadow, K. State University of New York	kenneth.gadow@stonybrook.edu	161.083
Freitag, C. M. Goethe University	C.Freitag@em.uni-frankfurt.de	120.002, 124.020, 127.073	Gaetz, W. C. C. Children's Hospital of Philadelphia	gaetzw@email.chop.edu	129.126, 129.131
French, C. Champalimaud Neuroscience Programme	catherine.french@neuro.fchampalimaud.org	105.010	Gagliano, A. Università di Messina	agagliano@unime.it	103.005
Fridenson, S. Bar-Ilan University	shimfri@gmail.com	128.102, 128.108, 141.068	Gaha, L. University of Monastir	gaha.lotfi@rns.tn	137.026
Friedlaender, E. Children's Hospital of Philadelphia	friedlaender@email.chop.edu	116.078, 116.079	Gaigg, S. B. City University London	s.b.gaigg@city.ac.uk	126.059, 141.074, 144.146, 144.155, 144.176, 166.006
Friedman, D. Interdisciplinary Center (IDC) Herzliya	doronf@idc.ac.il	117.173	Gaillard, W. D. Children's National Medical Center	wgaillard@childrensnational.org	114.040
Friedmann, N. Tel Aviv University, Macquarie University	naamafr@post.tau.ac.il	112.007, 144.148	Gal, E. University of Haifa	eynatgal@gmail.com	128.098, 128.107
Fritz, N. Marquette University	noelle.fritz@marquette.edu	122.006, 130.142	Galbusera, A. Istituto Italiano di Tecnologia Center for Nanotechnology Innovation @NEST	alberto.galbusera@iit.it	133.008
Froehlich, A. L. University of Utah	alyson.froehlich@hsc.utah.edu	112.001, 115.046, 115.056, 115.062, 115.073, 164.162	Galéra, C. CH Charles Perrens	cgalera@ch-perrens.fr	126.044
Frye, D. University of Pennsylvania	dfrye@gse.upenn.edu	141.060	Gallagher, L. Trinity College Dublin	lgallagher@tcd.ie	108.128, 115.044, 115.049, 115.057
			Galli, A. Vanderbilt University	aurelio.galli@vanderbilt.edu	127.064
			Gamber, B. C. C. University of Texas at Austin	bridget@mail.utexas.edu	160.044
			Gammer, I. Institute of Education	issy.gammer@gmail.com	134.008

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Ganesan, S. Massachusetts General Hospital	santosh@nmr.mgh.harvard.edu	122.003	Georgiades, S. Offord Centre for Child Studies & McMaster University	georgis@mcmaster.ca	102.007, 110.001, 112.003, 121.008
Gantman, A. UCLA Semel Institute for Neuroscience & Human Behavior	agantman@mednet.ucla.edu	154.004	Georgiou, A. EPSYPEA	anta-mes@yahoo.gr	117.111, 124.023
Gao, S. Nankai University		144.164	Gerber, A. Hunter College of the City University of New York	alan.h.gerber@gmail.com	143.128
Garavan, H. University of Vermont	garavanh@tcd.ie	108.128, 115.044	Gerber, C. P. University of South Australia	cobus.gerber@unisa.edu.au	135.004
Garcia, C. Nova Southeastern University	chantelgarcia8@yahoo.com	162.117	Germanò, E. Università di Messina	eva.germano@unime.it	103.005
Garcia, M. University of Illinois at Chicago	mgarci69@uic.edu	116.101	Geschwind, D. H. David Geffen School of Medicine at UCLA	dhg@mednet.ucla.edu	118.001, 120.006, 133.005, 155.001, 155.004
Garcia Primo, P. Carlos III National Institute of Health, University of Salamanca	pgarciaprimo@isciii.es	104.007	Geurts, H. M. University of Amsterdam	h.m.geurts@uva.nl	144.175, 145.002, 161.052, 161.053, 164.149, 164.164
Garcia Rabaneda, L. Instituto de Biomedicina de Sevilla, Hospital Universitario Virgen del Rocío/CSIC/Universidad de Sevilla. Departamento de Fisiología Médica y Biofísica	lgarcia-ibis@us.es	105.011	Gev, T. Bar-Ilan University	gevtali@gmail.com	143.121
García-Pérez, R. Musicaycolor Child Psychology Music Therapy Center	contacto@musicaycolor.com	141.048	Geven, F. GGZ Eindhoven Center Elderly Care Autism	FEM.geven@ggze.nl	164.156
Gardiner, E. C. Simon Fraser University	emily_Gardiner@sfu.ca	144.135	Gevers, C.	carolien.gevers@gmail.com	157.002
Gardner, J. M. New York State Institute for Basic Research in Developmental Disabilities	karmelgardner@si.rr.com	107.105, 163.142	Ghai, S. Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine	shweta.ghai@emory.edu	117.109, 117.120
Garg, S. University of Manchester	shrutigarg@hotmail.co.uk	104.001	Ghali, L. Sinneave Family Foundation	ghali@ucalgary.ca	132.008
Garland, D. A. National Autistic Society	deborah.garland@nas.org.uk	166.001	Ghannam, M. King Faisal Specialist Hospital & Research Centre	layalyg@hotmail.com	127.075
Garon, N. Mount Allison University	ngaron@mta.ca	111.008, 163.128	Ghilain, C. S. S. University of Miami	csghilain@gmail.com	117.152, 117.174, 124.029
Garrett, L. Vanderbilt Kennedy Center	latamara.garrett@vanderbilt.edu	113.029	Ghosh, T. Institut du Fer a Moulin	tanay.ghosh@inserm.fr	105.010
Garwood, H. Birkbeck, University of London	hgarwood@tavi-port.org	134.008	Giampietro, V. King's College London, Institute of Psychiatry	vincent.giampietro@kcl.ac.uk	108.146
Garzarek, J. Yale University School of Medicine	jessica.garzarek@yale.edu	134.001, 134.002,	Gibbard, C. R. UCL Institute of Child Health	c.gibbard@ucl.ac.uk	108.144, 115.048
Gasior, M. Shire Development LLC	mgasior@shire.com	162.106	Gibbons, J. University of California San Francisco	gibbonsjohn15@gmail.com	126.057
Gasparini, F. Neuroscience Discovery, Novartis Pharma AG	fabrizio.gasparini@novartis.com	153.004	Gidaya, N. B. Drexel University	ngidaya@gmail.com	159.008
Gates, A. Massachusetts General Hospital	agates1@partners.org	142.107	Giedd, J. National Institute of Mental Health	jg@nih.gov	115.058, 115.060, 160.030
Gau, S. S. F. National Taiwan University Hospital	gaushufe@gmail.com	144.138	Gilbert, J. R. University of Miami Miller School of Medicine	jgilbert@med.miami.edu	127.078
Gazzaley, A. University of California San Francisco	adam.gazzaley@ucsf.edu	126.057	Giles, L. Adelaide University	youn0069@finders.edu.au	117.163
Gebauer, L. Center of Functionally Integrative Neuroscience, Aarhus University	linegebauer@gmail.com	108.150, 129.136	Gillan, N. King's College London, Institute of Psychiatry	nicola.gillan@kcl.ac.uk	107.109, 108.149, 108.175, 132.003, 156.001
Geminiani, G. Department of Psychology, University of Turin, Turin, Italy	giuliano.geminiani@unito.it	115.052	Gillberg, C. Gillberg Neuropsychiatry Centre, University of Gothenburg	christopher.gillberg@gnc.gu.se	100.001
Genestine, M. Robert Wood Johnson Medical School	genestmp@umdnj.edu	105.016	Gillberg, N. M. K. M. Gillberg Neuropsychiatry Centre	nanna.gillberg@gnc.gu.se	164.176
Gengoux, G. W. Stanford University School of Medicine/Lucile Packard Children's Hospital	gracegengoux@yahoo.com	157.007	Gilles, G. Bruce Lefroy Centre for Genetic Health Research, MCRI	greta.gillies@mcri.edu.au	160.027
Génin, B. IntegraGen SA	berengere.genin@integragen.com	160.015	Gillespie-Lynch, K. College of Staten Island, University of California, Los Angeles	proserpinae@ucla.edu	117.126, 137.029
George, A. Hunter College	amgeorg@hunter.cuny.edu	112.006	Gilman, C. The Children's Hospital of Philadelphia	gilmanc@email.chop.edu	134.006
			Giovannelli, D. Haverford College	dgiovanni@haverford.edu	129.134
			Giovinazzo, S. University of Rome	silviagiovinazzo@yahoo.it	142.092

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Giron, J. Interdisciplinary Center (IDC) Herzliya	giron.jonathan@gmail.com	117.173	Goldstein, T. University of Pittsburgh School of Medicine	goldsteintr@upmc.edu	161.087
Gisbert, L. Salut Mental Parc Taulí, Parc Taulí. Sabadell. Hospital Universitari – UAB Universitat Autònoma de Barcelona, Campus d'Excel·lència Internacional		141.066	Golinkoff, R. M. University of Delaware	roberta@udel.edu	141.064
Gisel, E. McGill University	erka.gisel@mcgill.ca	164.170	Golovko, O. Prometheus Research, LLC	zindel@prometheusresearch.com	128.122
Giserman, I. The Children's Hospital of Philadelphia	gisermani@email.chop.edu	142.105, 161.081	Golshani, P. University of California at Los Angeles	pgolshani@mednet.ucla.edu	133.005
Gisin, E. B. Yale University School of Medicine	eugenia.gisin@yale.edu	134.001, 134.002, 138.031	Gomes, H. City College of New York	hiliary.gomes@gmail.com	123.012
Gissler, M. National Institute of Health and Welfare, Nordic School of Public Health	mika.gissler@thl.fi	106.056	Gomez, L. University of California, Los Angeles	lovelag@gmail.com	117.126
Giuliano, A. Istituto Nazionale di Fisica Nucleare; Sezione di Pisa	alessia637@gmail.com	156.005	Gomez, T. R. New York State Institute for Basic Research in Developmental Disabilities	trovito@gmail.com	107.105
Givon-Martin, H. Bait Echad Center, The Association for Children at Risk	hilamartin@gmail.com	130.155	Gomez-Mancilla, B. Neuroscience Translational Medicine, Novartis Institutes for Biomedical Research, Novartis Pharma AG	baltazar.gomez-mancilla@novartis.com	153.004
Gjevik, E. University of Oslo	elen.gjevik@medisin.uio.no	161.074	Gomot, M. INSERM U930	gomot@univ-tours.fr	108.126, 108.147
Glaser, B. University of Geneva Medical School	bronwyn.glaser@unige.ch	108.177, 162.123	Gondalia, S. V. V. Swinburne University of Technology	sgondalia@swin.edu.au	142.099
Glaser, K. F. King's College London	karen.glaser@kcl.ac.uk	132.003	Gonzalez, D. A. University of Waterloo	daveg81@gmail.com	126.050
Glatt, S. J. SUNY Upstate Medical University	glatts@upstate.edu	107.077	Gonzalez, Z. Hospital de Especialidades Pediátricas	zoila.g.a@gmail.com	106.034, 154.007
Glaze, D. Baylor College of Medicine	dglaze@bcm.edu	142.109	Gonzalez Fraguera, M. E. International Center for Neurological Restoration	rmunoz@infomed.sld.cu	120.005
Glazebrook, C. M. M. University of Manitoba	cheryl.glazebrook@ad.umanitoba.ca	126.050	Goodman, R. King's College London	robert.goodman@kcl.ac.uk	107.087
Glazer, S. Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine	sarah.glazer@choa.org	134.004	Goods, K. University of California Los Angeles	kgoods@mednet.ucla.edu	102.002, 112.004, 117.171
Glenn, O. UCSF	Orit.Glenn@ucsf.edu	115.045	Goodwin, A. University of Connecticut	anthony.goodwin@uconn.edu	164.155
Glicksman, A. New York State Institute for Basic Research in Developmental Disabilities	Anne.Glicksman@opwdd.ny.gov	142.095	Goodwin, M. S. Northeastern University	m.goodwin@neu.edu	128.106, 128.110, 128.111
Gluga, T. Birkbeck, University of London	t.gluga@psychology.bbk.ac.uk	146.001, 163.132, 163.134, 163.135, 163.140, 163.145	Gordon, I. Yale University	ilanit.gordon@yale.edu	156.002
Glod, M. Newcastle University	magdalena.glod@ncl.ac.uk	161.075	Gordon, J. Hunter College	jgordon@hunter.cuny.edu	123.013
Gockley, J. Yale University School of Medicine	jgockley62@gmail.com	127.077, 150.004	Gordon, L. Murdoch Childrens Research Institute	lavinia.gordon@mcri.edu.au	160.027
Goin-Kochel, R. P. P. Baylor College of Medicine	koche@bcm.edu	127.061, 127.071, 142.100, 155.007, 160.043	Gordon, R. K. Great Ormond Street Hospital and UCL Institute of Child Health	kate.gordon@ucl.ac.uk	130.148
Golan, D. Maccabi Healthcare Services	golan_da@mac.org.il	107.091	Gordon Green, C. McGill University	cathryn.gordongreen@mail.mcgill.ca	144.162
Golan, O. Bar-Ilan University	ofer.golan@biu.ac.il	117.159, 128.102, 128.108, 130.155, 141.068, 143.121, 144.152	Gorenstein, M. Mount Sinai School of Medicine	michelle.gorenstein@mssm.edu	130.153, 167.004
Goldberg, W. A. University of California, Irvine	wendy.goldberg@uci.edu	117.122, 121.002, 161.092	Gosar, D. Univ. Paediatric Hospital	davidgosar@yahoo.com	106.051
Golding, J. University of Bristol	jean.golding@bristol.ac.uk	104.004, 140.038	Gotham, K. Vanderbilt University	kog@umich.edu	107.083, 121.004, 160.026
Goldman, S. E. Vanderbilt University	Suzanne.E.Goldman@Vanderbilt.edu	142.104, 142.109	Goubran Botros, H. Institut Pasteur	hgbotros@pasteur.fr	111.007
Goldowitz, D. University of British Columbia	dang@cmmt.ubc.ca	131.002	Gouder, L. Institut Pasteur CNRS URA 2182	laura.gouder@pasteur.fr	127.070
Goldstein, H. The Ohio State University	hgoldstein@ehe.osu.edu	124.028	Gould, J. National Autistic Society	judithgould@nas.org.uk	107.080, 107.107
			Gozzi, A. Istituto Italiano di Tecnologia Center for Nanotechnology Innovation @NEST	alessandro.gozzi@iit.it	133.008
			Gozzi, M. National Institute of Mental Health	gozzim@mail.nih.gov	115.060
			Graab, U. Goethe-University	u.graab@kinderkrebstiftung-frankfurt.de	127.073

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Grahame, V. NTW NHS Foundation Trust	victoria.grahame@ntw.nhs.uk	130.149	Grossman, R. B. B. Emerson College, University of Massachusetts Medical School Shriver Center	ruth_grossman@emerson.edu	141.087
Grainger, C. S. S. Durham University	c.s.grainger@durham.ac.uk	141.065	Groszer, M. Institut du Fer a Moulin	Matthias.Groszer@inserm.fr	105.010, 127.060
Granader, Y. Children's National Medical Center	yaelgranader@gmail.com	144.159	Group, I. The INCLN NDD Study Group, The INCLN Trust International	nkarora@ipen.org.in	107.124, 107.125, 111.002, 158.004
Grauwels, J. University of Leuven (KU Leuven)	jolien.grauwels@hotmail.com	139.035	Grove, J. Department of Biomedicine and Bioinformatics Research Centre (BiRC), HEALTH, Aarhus University	grove@humgen.au.dk	106.050
Grawemeyer, B. University of Bath	b.grawemeyer@bath.ac.uk	121.006, 128.100	Grove, M. L. The University of Texas School of Public Health at Houston	Megan.L.Grove@uth.tmc.edu	104.005
Gray, H. Oregon Health & Science University	grayhi@ohsu.edu	106.035	Grove, R. Macquarie University	r.grove@optusnet.com.au	137.024
Gray, K. M. Monash University	kylie.gray@monash.edu	116.077, 130.144, 161.071, 162.101	Grubb, M. A. New York University	michael.grubb@nyu.edu	144.171
Gray, L. Newcastle University	laura.gray2@newcastle.ac.uk	143.129, 164.157, 166.005	Gruber, C. Western Psychological Services	cgruber@wpspublish.com	102.006
Grayson, L. E. Institute of Psychiatry, King's College London	lois.grayson@kcl.ac.uk	161.096	Grynszpan, O. Université Pierre & Marie Curie/CNRS	ouriel.grynszpan@upmc.fr	128.098, 144.151
Greaves-Lord, K. Erasmus MC - Sophia's Childrens Hospital	k.greaves-lord@erasmusmc.nl	161.078, 167.002	Grzadzinski, R. Teachers College, Columbia University	Rebecca.Grzadzinski@gmail.com	109.002
Greco, B. Istituto Italiano di Tecnologia	barbara.greco@iit.it	105.027	Gu, F. NYS Institute for Basic Research in Developmental Disabilities	gfalice2003@hotmail.com	120.004
Green, C. School of Psychological Science, La Trobe University	c.green@latrobe.edu.au	160.036	Gu, H. University of North Carolina, Chapel Hill	hongbin_gu@unc.edu	134.006
Green, C. Oregon Health & Science University	greency@ohsu.edu	161.055	Guastella, A. J. J. University of Sydney	adam.guastella@sydney.edu.au	162.101, 164.178
Green, J. University of Manchester	jonathan.green@manchester.ac.uk	104.001, 106.073, 117.147, 134.007, 164.167	Gudbrandsen, M. Institute of Psychiatry	maria.gudbrandsen@kcl.ac.uk	107.109, 108.149, 108.175, 156.001
Green, S. C. University of Pittsburgh	scg14@pitt.edu	129.132	Guerin, S. University College, Dublin	suzanne.guerin@ucd.ie	143.122
Green-Snyder, L. Boston Children's Hospital	Lagreensnyder@gmail.com	127.061, 127.071, 155.007	Guerra Juanes, I. University of Salamanca		104.007
Greenberg, S. E. Vanderbilt University	sarah.e.greenberg@vanderbilt.edu	108.131, 126.054	Guerrini, R. Meyer Pediatric Hospital, University of Florence	r.guerrini@meyer.it	142.102
Greenhill, S. Curtin University	sgreenhill@inet.net.au	128.117	Guidoux, A. University of Applied Sciences Western Switzerland	acs_guidoux@hotmail.com	141.047
Greenson, J. G. University of Washington	greenson@u.washington.edu	143.126, 143.131	Guillon, Q. University of Toulouse	quentin.guillon@univ-tlse2.fr	127.067, 132.004
Greenstein, D. National Institute of Mental Health	greenstd@mail.nih.gov	115.060	Guiltner, V. Glenrose Rehabilitation Hospital	val.guiltner@albertahealthservices.ca	107.102
Gregas, M. Children's Hospital Boston	Matt.Gregas@childrens.harvard.edu	136.013	Guinchat, V. Groupe Hospitalier Pitié-Salpêtrière, APHP, Université Pierre et Marie Curie, Paris VI	vincent.guinchat@psl.aphp.fr	160.015
Gregg, J. M.I.N.D. Institute	jgregg@ucdavis.edu	107.082	Guion, K. Oregon Health & Science University	guion@ohsu.edu	142.103
Gregg, M. Azusa Pacific University	mgregg08@apu.edu	105.024	Gujral, M. University of California San Diego	mgujral@ucsd.edu	155.006
Gregory, S. G. Duke University	simon.gregory@duke.edu	167.008	Gulati, S. All India Institute of Medical Sciences	sheffaligulati@gmail.com	107.124, 107.125, 111.002, 158.004
Grepo, N. University of Southern California	grepo@usc.edu	155.002	Guldberg, K. R. University of Birmingham	k.k.guldberg@bham.ac.uk	116.103
Grévent, D. INSERM Unity 1000, Necker Hospital	david.grevent@gmail.com	108.139	Gunal, O. B. Mount Sinai School of Medicine	ozlem.bozdagi@mssm.edu	133.002
Griesi-Oliveira, K. University Sao Paulo, Biosciences Institute	karinagriesi@gmail.com	127.093	Gunsul, A. OHSU	agunsul@westernu.edu	127.097
Griffiths, P. C. University of Bath	pcg21@bath.ac.uk	141.086	Gupta, A. K. NIMHANS		115.047
Grimmer, R. SSM Cardinal Glennon Children's Medical Center	RGrimmer@slu.edu	162.115			
Gringras, P. Kings College London	Paul.Gringras@gstt.nhs.uk	166.001			
Griswold, A. J. University of Miami	agriswold@med.miami.edu	127.078			
Grodberg, D. Mount Sinai School of Medicine	david.grodberg@mssm.edu	107.076, 126.056			
Gross, J. J. Stanford University	gross@stanford.edu	117.156			

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Guter, S. J. Jr. University of Illinois at Chicago	sguter@psych.uic.edu	147.004	Halladay, A. Autism Speaks	ahalladay@autismspeaks.org	106.040
Guthrie, W. Florida State University Autism Institute	whitney.guthrie@med.fsu.edu	107.097, 157.005	Halpern, D. B. Mount Sinai School of Medicine	danielle.halpern@mssm.edu	107.076, 130.153, 167.004
Gutierrez, A. Florida International University	anibal.gutierrez@fiu.edu	117.152, 117.174, 117.175, 124.029, 130.161, 143.127, 164.172	Ham, L. GGZ Eindhoven Adult Autism Center, GGZ Eindhoven Adult Autism Center	LM.Ham@ggze.nl	164.156
Gutierrez, A. Instituto de Investigación Sanitaria IMIM-Hospital del Mar, Universitat Pompeu Fabra, The Centre for Biomedical Network Research on Rare Diseases (CIBERER)	armand.ga@gmail.com	127.085	Hamel, J. Marcus Autism Center	Jennifer.hamel@choa.org	106.066
Gutson, K. A. PANAACEA	kgutson@gmail.com	106.063	Hamilton, A. University of Nottingham	claire.whitney@nottingham.ac.uk	108.153, 126.043, 141.067, 168.003
Guy, J. Perceptual Neuroscience Laboratory for Autism & Development (PNLab), McGill University	jacalyn.guy@gmail.com	126.055	Hamilton, P. J. Vanderbilt University	peter.j.hamilton@Vanderbilt.Edu	127.064
Guy, L. The Children's Hospital of Philadelphia	guy11@email.chop.edu	108.173, 161.080, 161.081	Hammal, D. Newcastle University	donna.hammal@ncl.ac.uk	160.012
Gwaltney, M. University of California Davis, Learning & Mind Sciences	mvgwaltney@ucdavis.edu	117.138, 144.161, 154.003, 164.166	Hammond, J. A. RTI International	Hammond@rti.org	117.170
Gyertyán, I. Gedeon Richter Plc.	i.gyertyan@richter.hu	105.026	Hammond, S. University of Edinburgh	seanhammond@lavabit.com	162.122
Gyftogianni, K. EPSYPEA	kgyftogianni@yahoo.gr	117.111	Hampton, L. H. H. Vanderbilt University	laurenhampton@gmail.com	124.032, 130.176
Gyftogianni, M. EPSYPEA	mgyftogianni@yahoo.gr	117.111, 124.023	HamsHERE, M. Cardiff University	hamsherem@cardiff.ac.uk	161.060
H			Han, B. EA 4004 Lab CHART/LUTIN, Paris-8 University, CNRS USR 3246, Centre Emotion, La Salpêtrière Hospital	borahan81@gmail.com	168.008
Habak, C. Visual Perception and Psychophysics Lab, University of Montreal, Centre de Recherche, Institut Universitaire de Gériatrie de Montréal	claudine.habak@gmail.com	126.040, 126.055	Han, J. NICHD	hanjo@mail.nih.gov	162.105
Habayeb, S. I. I. Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine	shabaye@emory.edu	164.173	Hämäläinen, M. S. Massachusetts General Hospital	msh@nmr.mgh.harvard.edu	122.003
Hadjikhani, N. EPFL	nouchine@nmr.mgh.harvard.edu	127.067	Hancock, L. N. York University	lhancock@yorku.ca	126.048
Hadley, D. D. Children's Hospital of Philadelphia	dexter.hadley@gmail.com	127.069	Hand, B. The Ohio State University	hand.58@buckeyemail.osu.edu	107.108, 160.039
Haebig, E. University of Wisconsin-Madison	ehaebig@wisc.edu	117.162	Hanlon, C. Addis Ababa University	charlotte.hanlon@kcl.ac.uk	113.008
Hagen, A. D. Oregon Health & Science University	hagena@ohsu.edu	161.055, 167.006	Hanna, E. University of North Carolina at Chapel Hill	eleanor.hanna@cidd.unc.edu	108.130
Hagerman, R. UC Davis M.I.N.D. Institute	Randi.Hagerman@ucdmc.ucdavis.edu	153.004	Hanna, S. Offord Centre for Child Studies & McMaster University	hannas@mcmaster.ca	102.007
Haines, J. L. Vanderbilt University	general@chgr.mc.vanderbilt.edu	127.078, 127.095	Hannigen, S. F. University of Pittsburgh	sfn8@pitt.edu	134.003
Haisley, L. D. D. University of Connecticut	lauren.haisley@uconn.edu	106.061	Hansen, K. D. Johns Hopkins University	khansen@jhsp.edu	106.046, 155.004
Haji, T. Tamagawa University		162.126	Hansen, R. The M.I.N.D. Institute, University of California, Davis, UC Davis Medical Center	rhansen@ucdmc.ucdavis.edu	104.003, 104.006, 106.045, 107.082, 119.003, 135.005
Hakonarson, H. Children's Hospital of Philadelphia	hakonarson@email.chop.edu	127.069	Hanson, E. Children's Hospital Boston	ellen.hanson@childrens.harvard.edu	121.001, 127.061, 127.071, 142.100, 155.007, 161.100
Hale, M. N. University of Miami	mhale@psy.miami.edu	117.175	Happe, F. King's College London	francesca.happe@kcl.ac.uk	107.087, 141.053, 144.145, 161.054, 161.079, 161.095
Hall, C. The Marcus Autism Center	christine.hall@choa.org	106.066	Haque, F. McMaster University	farhia.haque@utoronto.ca	135.003
Hall, L. J. San Diego State University	ljhall@mail.sdsu.edu	165.002	Haramaki, T. Saga University, Osaka University	tomoko_h@gd6.so-net.ne.jp	113.007
Hall, L. Queen's University	5lh27@queensu.ca	144.177, 164.169	Harb, R. Palestinian Happy Child Centre	hrawan@hotmail.com	113.009
Hall, T. Oregon Health and Science University	halltr@ohsu.edu	142.110	Hardan, A. Y. Stanford University School of Medicine	hardanay@stanford.edu	108.176, 117.156, 143.119, 157.007
			Hardy, S. Ministry of Children and Youth Services	sarah.hardy@ontario.ca	106.061, 132.005
			Hare, C. K. K. Autism Speaks	chare@autismspeaks.org	160.038
			Harony-Nicolas, H. Mount Sinai School of Medicine	Hala_harony@yahoo.com	133.002

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Harrington, R. A. A. Johns Hopkins Bloomberg School of Public Health	rharrington@jhsp.edu	117.123, 125.036, 160.031	Heiken, K. Children's Hospital of Philadelphia	heikenk@email.chop.edu	129.131
Harris, A. A. Boston University	aaharris@bu.edu	117.121	Heimann, M. Linköping University, The Swedish Institute for Disability Research	mikael.heimann@liu.se	157.003
Harris, J. Children's Specialized Hospital	jharris@childrens-specialized.org	117.139	Hellendoorn, A. Utrecht University	A.Hellendoorn@uu.nl	126.053
Harris, J. University of California San Francisco	jharris66@gmail.com	108.156, 126.057, 129.128	Hellings, J. A. A. The Ohio State University Nlsonger Center	jessica.hellings@osumc.edu	162.105
Harrop, C. University of Manchester	clare.harrop@manchester.ac.uk	164.167	Hellriegel, J. Great Ormond Street Hospital for Children, University College London	josselyn.hellriegel@gmail.com	112.008, 113.004, 116.083, 130.146
Hart, J. Brigham and Women's Hospital	jaime.hart@channing.harvard.edu	119.001	Helminen, T. M. M. University of Tampere	terhi.helminen@uta.fi	123.005
Hart-Livingston, K. Children's Hospital of Philadelphia	kehart@sp2.upenn.edu	116.078	Helt, M. University of Connecticut	mollyhelt@aol.com	160.019, 160.034
Hartman, C. A. University Medical Center Groningen	c.hartman@accare.nl	111.003, 145.002	Helvershou, S. B. Oslo University Hospital	shelvers@ous-hf.no	130.166
Harward, S. University of Utah	sarah.harward@utah.edu	148.001, 148.004, 160.046	Henault, I. Autism & Asperger's Clinic of Montreal	drisabellehenault@gmail.com	160.013
Hasegawa, T. The University of Tokyo	thase@danwin.c.u-tokyo.ac.jp	141.049, 141.052	Hendren, R. L. University of California, San Francisco	robert.hendren@ucsf.edu	162.103, 162.108, 167.007
Hashim, P. Yale University School of Medicine	peter.hashim@yale.edu	136.009, 136.012	Hendriks, P. University of Groningen, Center for Language and Cognition	p.hendriks@rug.nl	145.002
Haslinger, D. Deutsches Krebsforschungszentrum (DKFZ), University of Salzburg	Denise.Haslinger@kgu.de	120.002	Hendry, A. Brock University	hendry_amanda@hotmail.com	160.032
Hatt, N. V. University of California at Davis	nvhatt@ucdavis.edu	117.138, 154.003, 164.166	Henkelman, R. M. The Hospital for Sick Children	mhenkel@phenogenomics.ca	115.061
Hawthorne, J. Prometheus Research, LLC	julie@prometheusresearch.com	128.120	Hennekam, R. C. Academic Medical Center, University of Amsterdam	r.c.hennekam@amc.uva.nl	160.023
Hay, D. F. Cardiff University	HayDF@cardiff.ac.uk	117.165	Hennessey, P. Department of Education	phennessey@gov.nl.ca	106.043
Hay, I. University of Tasmania	Education.Dean@utas.edu.au	117.157	Hensch, T. Harvard University	hensch@mcb.harvard.edu	153.001
Hayek, J. University Hospital of Siena AOUS	G.hayek@ao-siena.toscana.it	135.002	Hensel, C. Lineagen, Inc.	chensel@lineagen.com	127.069
Hayes, J. University of Kansas Medical Center	jhayes3@kumc.edu	162.105	Hensley, M. K. K. University of Louisville	marie.hensley@louisville.edu	113.027
Haygeman, E. University of Utah	emily.haygeman@hsc.utah.edu	148.001, 148.004, 160.046	Hepburn, S. University of Colorado	susan.hepburn@ucdenver.edu	108.132, 122.002, 130.152, 130.161, 157.008, 160.030
Hayward, H. L. L. Institute of Psychiatry, King's College London	hannah.hayward@kcl.ac.uk	107.109, 132.003	Herbert, M. R. Massachusetts General Hospital	mherbert1@partners.org	122.003
Hazzard, A. P. Emory University School of Medicine	pedah@emory.edu	106.049	Herguner, A. NE University, Meram Faculty of Medicine	arzu_samur@yahoo.com	161.058
Hazzard, L. University of North Carolina at Chapel Hill	Lhazzard@med.unc.edu	167.008	Herguner, S. NE University, Meram Faculty of Medicine	cocukergen@yahoo.com	142.091, 161.058
He, Y. Biomarker Development, Novartis Institutes for Biomedical Research	yunsheng.he@novartis.com	153.004	Herlihy, L. University of Connecticut	leherlihy@gmail.com	121.005, 154.008, 167.001
Heathcock, J. C. The Ohio State University	jill.heathcock@osumc.edu	107.108	Hermens, F. University of Aberdeen, University of Leuven (KU Leuven)	hermensf@gmail.com	141.070
Heaton, P. Goldsmiths College, University of London	p.heaton@gold.ac.uk	108.150, 164.163	Hernandez, J. Massachusetts Institute of Technology	javierhr@mit.edu	128.111
Hecht, P. University of Missouri	pmhp6d@mizzou.edu	106.033	Hernandez, L. M. University of California, Los Angeles	leannahernandez@ucla.edu	129.123
Hedges, D. J. University of Miami	dhedges@med.miami.edu	127.078	Herpertz-Dahlmann, B. University Hospital Aachen	bherpertz-dahlmann@ukaachen.de	108.142
Hedley, D. Nationwide Children's Hospital and The Ohio State University, Flinders University of South Australia	darren.hedley@nationwidechildrens.org	141.058	Herráez, M. M. University of Salamanca	mmar@usal.es	104.007
Heeger, D. J. New York University	david.heeger@nyu.edu	144.171	Herrera, G. University of Valencia	gerardo.herrera@uv.es	128.115
Hegarty II, J. P. University of Missouri	hegartyj@missouri.edu	115.065	Herrington, J. D. Children's Hospital of Philadelphia	herringtonj@email.chop.edu	108.172, 108.173, 129.125, 129.134, 142.105, 161.080, 161.081

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Hertz-Picciotto, I. University of California at Davis	ihp@ucdavis.edu	104.006, 106.039, 106.046, 106.057, 106.072, 107.082, 119.003, 121.003, 135.005, 160.031, 161.082	Hoekstra, R. A. University of Cambridge, The Open University	R.A.Hoekstra@open.ac.uk	113.008, 137.024, 137.030
Hervas, A. Hospital Mutua de Terrassa	ahervas@mutuaterrassa.es	127.091	Hof, P. R. Mount Sinai School of Medicine	patrick.hof@mssm.edu	114.034, 133.002
Herve, D. Institut du Fer a Moulin	denis.herve@inserm.fr	105.010	Hofvander, B. Department of Psychiatry, University of Cambridge, Department of Clinical Sciences, Malmoe, Lund University	bjorn.hofvander@med.lu.se	121.007
Hewitson, L. The Johnson Center for Child Health and Development	lhewitson@johnson-center.org	101.001, 107.078	Hogan-Brown, A. L. L. Northwestern University	abigail.brown@u.northwestern.edu	117.144
Hewson, P. H. Barwon Health	chewson1@bigpond.net.au	160.027	Holden, J. University of North Carolina	jamesonholden@unc.edu	126.056
Hiatt, J. B. University of Washington	jbihiatt@gmail.com	155.008	Holden, J. J. A. Queen's University	holdenj@post.queensu.ca	126.048
Hickey, P. The Walter and Eliza Hall Institute of Medical Research	hickey@wehi.EDU.AU	160.027	Holland, R. Florida State University Autism Institute	renee.holland@med.fsu.edu	157.005
Hickie, I. B. University of Sydney	ian.hickie@sydney.edu.au	162.101	Hollebrandse, B. University of Groningen, Center for Language and Cognition Groningen (CLCG)	b.hollebrandse@rug.nl	145.002
Hidding, E. Leiden University	e.hidding.2@fsw.leidenuniv.nl	164.160	Hollocks, M. J. J. Institute of Psychiatry, King's College London	matthew.hollocks@kcl.ac.uk	161.057, 161.096
Hidecker, M. J. C. University of Central Arkansas	mjhidecker@uca.edu	127.088	Holmes, C. K. K. Flinders University	clare.holmes@flinders.edu.au	107.088
Hietanen, J. K. University of Tampere	jari.hietanen@uta.fi	123.005, 143.134, 146.004	Holt, R. Autism Research Centre	rh465@cam.ac.uk	115.042
Higgins, M. Emory Unveristy Nell Hodsgon Woodruff School of Nursing	Mkhiggi@emory.edu	106.036	Homs, A. Universitat Pompeu Fabra, The Centre for Biomedical Network Research on Rare Diseases (CIBERER), Instituto de Investigación Sanitaria IMIM-Hospital del Mar	aida.homs@upf.edu	127.085, 159.010
Higgins, R. National Institute of Child Health & Human Development	higginsr@mail.nih.gov	117.170	Honey, E. Newcastle University	e.j.honey@durham.ac.uk	130.149, 143.113, 166.005
Hill, A. P. P. Oregon Health & Science University	hillali@ohsu.edu	130.160, 161.055	Hong, G. Nazarene University	ghun@komu.ac.kr	117.113
Hill, E. L. Goldsmiths University	e.hill@gold.ac.uk	126.043	Hood, J. University of Utah	julia.hood@utah.edu	130.154
Hill, S. S. University of California San Francisco	susannahill@gmail.com	108.156, 129.128	Hopkins, J. UCLA PEERS Clinic	jmlhopkins@gmail.com	117.141, 117.158, 117.161, 130.138, 141.080, 154.002, 161.094
Hiller, R. Flinders University	rachel.hiller@flinders.edu.au	141.082	Horder, J. Institute of Psychiatry, King's College London	jamie.horder@kcl.ac.uk	108.151, 126.041
Hilton, C. L. Washington University	hiltonc@wustl.edu	127.084	Hornickel, J. Northwestern University	j-hornickel@northwestern.edu	117.131
Hinchen, A. University of Louisville School of Medicine	aphinc01@louisville.edu	136.008	Horstead, S. K. University of Sydney	sian.horstead@sydney.edu.au	130.144
Hines, K. Children's Hospital of Philadelphia	hinesk1@email.chop.edu	129.131	Horwitz, E. H. H. University Medical Center Groningen	e.horwitz@umcg.nl	111.003
Hinkka-Yli-Salomäki, S. University of Turku	sushys@utu.fi	106.056, 106.058	Hotez, E. R. R. The Graduate Center of the City University of New York, Hunter College	ehotez@gc.cuny.edu	113.026, 116.099
Hinkley, L. B. UCSF Autism & Neurodevelopment Program	leighton.hinkley@ucsf.edu	108.156	Hottinger, K. Albert Einstein College of Medicine	kate.hottinger@gmail.com	142.094
Hintner, H. General Hospital Salzburg/PMU	h.hintner@salk.at	120.002	Hougaard, D. M. Department of Clinical Biochemistry and Immunology, Statens Serum Institute	DH@ssi.dk	106.050
Hirschler Guttenberg, Y. Bar-Ilan University	yael.hirschler@live.biu.ac.il	117.159	Howes, O. MRC Clinical Sciences Centre	oliver.howes@imperial.ac.uk	108.151
Hirsh-Pasek, K. Temple University	khirshpa@temple.edu	141.064	Howley, D. M. Institute of Psychiatry, King's College London	deirdre.howley@kcl.ac.uk	132.003
Hirvikoski, T. Karolinska Institutet	tatja.hirvikoski@ki.se	130.147, 161.059	Howlin, P. Institute of Psychiatry, King's College London	patricia.howlin@kcl.ac.uk	142.090, 161.057, 161.085, 161.096
Ho, K. S. Lineagen, Inc.	kho@lineagen.com	127.069	Hsin, O. Children's Hospital of Philadelphia	ohsin2002@gmail.com	137.028
Hobson, J. A. Institute of Child Health, UCL	j.hobson@ich.ucl.ac.uk	117.169, 143.122	Hu, S. Robert Wood Johnson Medical School	seanhu@eden.rutgers.edu	105.016
Hobson, R. P. Institute of Child Health, UCL	r.hobson@ich.ucl.ac.uk	117.169			
Hochhauser, M. University of Haifa	mhochh1@univ.haifa.ac.il	128.107			
Hoddenbach, E. Jr. VU University Amsterdam	E.Hoddenbach@debascul.com	157.002			
Hodgetts, S. University of Alberta	sandra.hodgetts@ualberta.ca	116.088			

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Huang, S. C. University of Washington	claire0502@gmail.com	115.050	Ibanez, L. V. University of Washington Autism Center	libanez1@uw.edu	107.079
Huang-Storms, L. Oregon Health & Science University	huangsto@ohsu.edu	142.103, 167.006	IBIS Network, T. University of North Carolina, Chapel Hill		134.006, 160.045
Huber, H. Vanderbilt University	heartley.b.huber@vanderbilt.edu	113.029	Ichihashi, K. Showa University		136.021
Huc-Chabrolle, M. CRA Centre, CHRU de Tours	m.huc-chabrolle@chu-tours.fr	126.052	IDIA Consortium, Italian Health Services for Autism	anarzisi@inpe.unipi.it	124.025
Hudry, K. Olga Tennon Autism Research Centre	k.hudry@latrobe.edu.au	107.089, 110.004, 117.147, 136.010, 168.006	Iglozzi, R. University of Pisa-Stella Maris Scientific Institute	roberta.iglozzi@inpe.unipi.it	107.118
Hughes, H. L. University of North Texas	heather.hughes@unt.edu	130.169	Iida, Y. National Center of Neurology and Psychiatry, Japan, National Institute of Mental Health	y-iida@ncnp.go.jp	123.017
Hughes, K. University of Missouri Thompson Center for Autism and Neurodevelopmental Disorders	hugheskl@health.missouri.edu	142.112	Imaki, H. New York State Institute for Basic Research in Developmental Disabilities	humi.imaki@opwdd.ny.gov	114.039
Huguet, G. Institut Pasteur	guillaume.huguet@pasteur.fr	111.007, 115.074	Inada, N. National Center of Neurology and Psychiatry, Japan, National Institute of Mental Health	n-inada@ncnp.go.jp	123.017
Hull, C. Harvard Medical School	Court_Hull@hms.harvard.edu	133.004	Ingersoll, B. Michigan State University	ingers19@msu.edu	117.129, 141.076, 143.117
Hull, M. F. University of Virginia	mfh4jz@virginia.edu	161.072	Irizarry, R. Johns Hopkins University	ririzar@jhspsh.edu	106.046, 155.004
Hulme, W. University of Miami	whulme@med.miami.edu	127.078	Isomura, T. Kyoto University	isomura@pri.kyoto-u.ac.jp	168.007
Hume, K. University of North Carolina, Chapel Hill	kara.hume@unc.edu	117.152, 124.019, 124.021, 164.172	Ito, H. Hamamatsu University School of Medicine	ito_hiroyuki@pd5.so-net.ne.jp	113.022, 132.007
Humphrey, N. University of Manchester	neil.humphrey@manchester.ac.uk	101.002	Ito, T. Tamagawa University		162.126
Hun, S. Autism Resources Center PACA - Nice	steph.hun@gmail.com	128.101	Iverson, J. M. University of Pittsburgh	jiverson@pitt.edu	117.177, 163.131
Hunter, J. V. Baylor School of Medicine	jvhunters@texaschildrens.org	115.045	Iwanami, A. Showa University	iwanami@med.showa-u.ac.jp	136.021
Hur, S. Michigan State University	hursang@msu.edu	124.034	Iwata, K. Hamamatsu University School of Medicine	iwata-k@hama-med.ac.jp	159.009
Hursti, T. Uppsala University, Department of Psychology	timo.hursti@psyk.uu.se	130.147	Iyengar, U. University College London, Baylor College of Medicine	iyengar@bcm.edu	122.007
Hurtig, T. University of Oulu	tuula.hurtig@oulu.fi	161.093			
Hus, V. University of Michigan	vhus@umich.edu	111.001	J		
Huskens, B.	b.huskens@leokannerhuis.nl	162.120	Jack, A. Yale University	allison.jack@yale.edu	108.140
Huson, S. M. Central Manchester University Hospitals NHS Foundation Trust	mailto:Susan.Huson@cmft.nhs.uk	104.001	Jackman, P. Department of Education	paulettejackman@gov.nl.ca	106.043
Hussey, M. M. M. Beijing Normal University	mhussey7490@gmail.com	162.112	Jackson, S. University of St Andrews	sljj@st-andrews.ac.uk	141.081
Hussman, J. P. Hussman Foundation	hussman@hussman.edu	127.078	Jacob, S. University of Illinois at Chicago	sumajacob@gmail.com	162.102
Hutchison, S. M. University of Victoria	smh@uvic.ca	144.135	Jacobs, S. Rochester Institute of Technology	sjxjcs@rit.edu	128.113
Hutman, T. University of California, Los Angeles	hutman@ucla.edu	113.026, 116.099, 117.126, 134.005, 137.029, 138.032, 143.128, 163.141	Jacobstein, D. Georgetown University	jacobstd@georgetown.edu	113.010
Hyatt, C. Hartford Hospital	Chyatt@harthosp.org	115.068	Jacquemont, S. University Hospital of Lausanne, University of Lausanne	sebastien.jacquemont@chuv.ch	153.004
Hyde, K. L. Montreal Neurological Institute, McGill University	krista.hyde@mcgill.ca	115.070, 115.072, 115.075, 129.133, 129.135, 129.136	Jacques, C. Université du Québec à Ottawa (UQO)	claudine.jacques@uqo.ca	160.048
Iakimova, G. Anthropologic and Cognitive and Social Psychology Department	galina.iakimova@free.fr	128.101	Jaegermann, N. N. Bar-Ilan University, Israel	nuritj@netvision.net.il	157.006
Iakoucheva, L. M. University of California San Diego	lilyak@ucsd.edu	155.006	James, P. Newcastle University	peter.james@ncl.ac.uk	160.012
Iarocci, G. Simon Fraser University	giarocci@sfu.ca	117.133, 144.135, 160.049, 164.148	James, S. J. Ph.D University of Arkansas for Medical Sciences	jamesjill@uams.edu	120.003, 142.098, 159.006, 162.108
			Jamieson, D. Centers for Disease Control and Prevention	dji0@cdc.gov	104.002

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Janes, E. School of Psychology, Newcastle University	emily.thompson@ntw.nhs.uk	117.149	Johnson, D. Autism Science Foundation	djohnson@autismsciencefoundation.org	116.089, 164.171
Jang, L. Y. Institute of Mental Health	jade_ly_jang@imh.com.sg	161.073	Johnson, H.	h.johnson@bath.ac.uk	121.006, 128.100
Jansen, A. Philipps-University Marburg	andreas.jansen@med.uni-marburg.de	108.134	Johnson, J. L. University of North Carolina at Chapel Hill	Jacqueline_johnson@med.unc.edu	167.008
Jansen, R. M. University of Leuven (KU Leuven)	rienne.jansen@ppw.kuleuven.be	139.035	Johnson, J. Massachusetts General Hospital	jjohnson@partners.org	117.155
Janssen, J. Imaging Laboratory	jjanssen@mce.hggm.es	115.054	Johnson, J. D. University of Missouri	johnsonjeffre@missouri.edu	115.067
Janulaitis, D. The Help Group-UCLA Autism Research Alliance	danieljanulaitis@gmail.com	106.069, 117.141, 117.158	Johnson, K. A. University of Melbourne	kajo@unimelb.edu.au	108.128, 115.044
Janvier, Y. Children's Specialized Hospital	yjanvier@childrens-specialized.org	117.139	Johnson, L. D. University of Minnesota	chaf0032@umn.edu	164.169
Jarrold, C. University of Bristol	C.Jarrold@bristol.ac.uk	168.004	Johnson, M. H. Birkbeck, University of London	mark.johnson@bbk.ac.uk	107.089, 134.007, 134.008, 136.010, 146.001, 163.132, 163.133, 163.134, 163.135, 163.140, 163.145
Jarrold, W. UC Davis	william.jarrold@gmail.com	117.138, 144.161, 154.003, 164.166	Johnson, M. A. Institute of Health and Society, Newcastle University	m.johnson@newcastle.ac.uk	106.047, 107.115
Jarstfer, M. B. University of North Carolina School of Medicine	jarstfer@email.unc.edu	105.021	Johnson, R. J. University of Virginia	rjj3f@virginia.edu	116.081
Jashar, D. T. T. University of Connecticut	dasal.jashar@uconn.edu	107.116	Johnson, R. T. University of California Davis Medical Center	rtjohn@ucdavis.edu	108.169
Javanfard, E. UCLA PEERS Clinic, Pepperdine University	elan.javanfard@pepperdine.edu	117.141	Johnson, S. P. UCLA	spjohnson@ucla.edu	134.005, 137.029, 138.032
Jaworski, J. University of Miami	jjaworski@med.miami.edu	127.078	Johnson, S. A. IWK Health Centre	shannon.johnson@dal.ca	144.158
Jelenic, P. Centre d'Excellence en Troubles Envahissants du Développement de l'Université de Montréal (CETEDUM)	patjelenic@live.com	164.168	Johnson, T. Queen Margaret University	T.Johnson@qmu.ac.uk	107.119, 107.120, 107.121
Jenewein, E. Nova Southeastern University	jenewein@nova.edu	162.117	Johnson, W. G. G. UMDNJ-RWJMS	wjohnson@umdnj.edu	127.080
Jenkins, J. III Children's Hospital of Philadelphia	julianj3rd@gmail.com	123.016	Johnston, K. Simon Fraser University	khj@sfu.ca	160.049
Jenkinson, M. University of Oxford	mark.jenkinson@ndcn.ox.ac.uk	115.059	Johnston, P. King's College London, Institute of Psychiatry	patrick.johnston@kcl.ac.uk	108.146
Jenner, W. Medical University of South Carolina	jennerw@musc.edu	106.055, 162.109	Johnstone, E. C. University of Edinburgh	e.johnstone@ed.ac.uk	108.148
Jenson, B. University of Utah	jenson@ed.utah.edu	130.154	Jokel, A. Tel-Hashomer, Safra Children's Hospital	ariela.slp@gmail.com	106.038, 162.111
Jepsen, J. R. M. Center for Neuropsychiatric Schizophrenia Research	jepsen.jensrichardt@gmail.com	144.170	Jokinen, J. Karolinska Institute, Department of Clinical Neuroscience	jussi.jokinen@ki.se	130.147
Jeste, S. S. UCLA	sjeste@mednet.ucla.edu	122.005, 134.005, 136.013	Jones, C. University of Essex	crgjones@essex.ac.uk	141.074, 161.054, 161.095
Ji, L. NYS Institute for Basic Research in Developmental Disabilities	jilina76@hotmail.com	135.001	Jones, E. J. Birkbeck, University of London	ubejon01@mail.bbk.ac.uk	163.133, 163.134
Jibril, M. Palestinian Happy Child Centre	magedajibril@yahoo.com	113.009	Jones, G. University of Birmingham	g.e.jones@bham.ac.uk	166.001
Jimenez, L. University of Santiago	luis.jimenez@usc.es	141.059	Jones, K. L. University of Missouri	KALZPD@mail.mizzou.edu	105.017, 106.033
Jin, S. Nankai University		144.164	Jones, R. M. Weill Cornell Medical College	rej2004@med.cornell.edu	107.075
Jivraj, J. A. University of Alberta	jivraj.jamil@gmail.com	110.001, 116.108	Jones, W. Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine	warren.r.jones@emory.edu	103.003, 107.090, 107.123, 117.166, 123.004, 134.004, 141.042, 144.149, 163.137, 163.144, 164.173, 167.001, 168.001
Jo, B. Stanford University	Booil@stanford.edu	154.005	Joseph, R. M. Boston University School of Medicine	rmjoseph@bu.edu	110.002
Johansson, M. Uppsala University	alichiensis@hotmail.com	146.003	Jou, R. J. Yale University	roger.jou@yale.edu	108.176, 115.063, 156.006
Johns, D. Neuroscience Translational Medicine, Novartis Institutes for Biomedical Research, Novartis Pharma AG	donald.johns@novartis.com	153.004	Juárez, A. P. Vanderbilt Kennedy Center	pablo.juarez@vanderbilt.edu	113.029
Johnson, A. Western University	ajohnson@uwo.ca	164.146	Julvez, J. Centre for Research in Environmental Epidemiology (CREAL)	jjulvez@creal.cat	106.072
Johnson, A. L. The Warren Alpert Medical School of Brown University, E. P. Bradley Hospital	ajohnson2@lifespan.org	117.170	Jun, S. S. Dankook University	withss@dankook.ac.kr	130.143

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Jung, E. S. Kennedy Krieger Institute	junges@kennedykrieger.org	115.053, 129.130	Kasari, C. University of California Los Angeles	kasari@gseis.ucla.edu	102.002, 109.001, 112.004, 113.014, 117.171, 124.030, 125.037, 130.145, 130.173, 130.174
Jung, J. Y. Harvard Medical School	jj77@med.harvard.edu	127.090	Kashino, M. NTT Communication Science Laboratories, NTT Corp.	kashino.makio@lab.ntt.co.jp	136.021
Jung, J. Baylor College of Medicine	jennjung26@yahoo.com	122.007	Kastner, M. University of Denver	mkastner118@gmail.com	130.161
Jussila, K. University of Oulu	katja.jussila@oulu.fi	161.093	Kato, S. Aichi Children's Health and Medical Center	sihho_-kartoon@nifty.com	141.046
Just, A. C. Harvard School of Public Health	acjust@hsph.harvard.edu	119.001	Kato, N. Showa University	katon@med.showa-u.ac.jp	136.021
Justice, M. J. Baylor College of Medicine	mjustice@bcm.edu	102.004	Katsos, N. University of Cambridge	nk248@cam.ac.uk	117.178
Jyotishi, M. University of Connecticut	manyajyotishi@gmail.com	164.155	Katz, D. M. Case Western Reserve University	david.katz@case.edu	153.002
K			Katz, T. University of Colorado Denver	terry.katz@ucdenver.edu	142.104, 142.109
Kaakinen, J. K. University of Turku	johkaa@utu.fi	141.057	Kaufmann, W. E. Boston Children's Hospital	Walter.Kaufmann@childrens.harvard.edu	155.004
Kaale, A. Oslo University Hospital	anett.kaale@r-bup.no	139.036	Kauper, S. Children's Hospital of Philadelphia	kaupers@email.chop.edu	141.064, 160.045
Kabat, B. H. Private Consulting Practice	bkabat2@yahoo.com	162.117	Kaur, A. Monash Medical Centre	atasha_81@hotmail.com	117.114
Kahne, J. Marquette University	jenna.kahne@mu.edu	122.006, 130.142	Kay, C. University of Manchester	catherine.kay@manchester.ac.uk	106.073
Kaiser, A. P. Vanderbilt University	ann.kaiser@vanderbilt.edu	102.002, 112.004, 117.171, 124.032, 130.176	Kazlauskas, N. IFIByNE, UBA-CONICET	nadiakazlauskas@gmail.com	105.008
Kaiser, M. D. Yale University	martha.kaiser@yale.edu	108.133, 108.166	Keans, J. M. Dalhousie University	janessa.keans@dal.ca	163.128
Kaland, N. Lillehammer University College	nils@kaland.net	141.077	Keating, C. Monash University	caroline.keating@monash.edu	116.077, 161.071, 162.101
Kalies, M. K. K. UCLA PEERS Clinic	Meredith.Kalies@pepperdine.edu	141.080, 154.001	Kedves, R. Gedeon Richter Plc.	r.kedves@richter.hu	105.026
Kamio, Y. National Center of Neurology and Psychiatry, Japan, National Institute of Mental Health	kamio@ncnp.go.jp	123.017	Keehn, B. Harvard Medical School, Boston Children's Hospital	brandon.keehn@childrens.harvard.edu	108.135, 163.143
Kamp-Becker, I. Philipps-University Marburg	kampbeck@med.uni-marburg.de	108.134, 141.050	Keepers, G. Oregon Health & Science University	gordonkeepers@gmail.com	130.160
Kamps, J. L. Children's Hospital	jkamps@chnola.org	164.154	Keller, R. Adult Autism Center, ASL TO2, Turin, Italy	rokel2003@libero.it	115.052
Kana, R. K. University of Alabama, Birmingham	rkana@uab.edu	108.161, 108.162, 108.163, 108.165, 108.167, 108.168, 129.127	Kellermann, J. Max-Planck-Institute of Biochemistry	kellerma@biochem.mpg.de	120.002
Kanemoto, K. Aichi Medical University	peh06237@nifty.ne.jp	141.046	Kelley, E. A. Queen's University	kelleyb@queensu.ca	126.058, 136.019, 144.177, 156.004, 160.019, 164.169, 166.002
Kanai, C. Showa University	chikanai1003320@gmail.com	136.021	Kelly, C. Institute for Pediatric Neuroscience	amclarekelly@gmail.com	149.002
Kang, S. Iowa State University	shrkgang@iastate.edu	117.128	Kelly, E. Glenrose Rehabilitation Hospital	Elizabeth.L.Kelly@albertahealthservices.ca	107.102
Kanne, S. M. Baylor College of Medicine	smkanne@hotmail.com	107.092, 142.100, 160.043	Kelty, E. C. C. University of Connecticut	emma.kelty@uconn.edu	112.002
Kaplan, M. Center for Visual Management	mailto:CVMKAPLAN@aol.com	162.116	Kemner, C. University Medical Centre Utrecht, Utrecht University	c.kemner@umcutrecht.nl	123.006
Kaplan-Levy, S. University of Massachusetts Boston	saraa.kaplan@gmail.com	113.031	Kemp, J. P. University of Bristol	J.P.Kemp@Bristol.ac.uk	140.038
Karaasian, O. Marmara University	ozcanka@gmail.com	165.002	Kenet, T. Massachusetts General Hospital	tal@nmr.mgh.harvard.edu	122.003
Karanth, P. The Com DEALL Trust	prathibha@mit.edu	128.109	Kenny, L. University of Nottingham	lorcan.kenny@nottingham.ac.uk	126.043
Karl, T. University of Salzburg	Thomas.Karl@sbg.ac.at	120.002	Kent, R. G. Cardiff University	KentRG@Cardiff.ac.uk	107.080
Karlsson, L. Gillberg Neuropsychiatry Centre, University of Gothenburg	louise.karlsson@gnc.gu.se	161.098	Kenworthy, L. Children's National Medical Center	lkenwort@childrensnational.org	114.040, 115.058, 130.141, 130.164, 144.159, 157.001, 160.030, 161.089
Karmel, B. Z. NYS Institute for Basic Research in Developmental Disabilities	karmelgardner@gmail.com	107.105, 163.142			
Karmiloff-Smith, A. Birkbeck, University of London	a.karmiloff-smith@bbk.ac.uk	163.140			
Karst, J. S. Marquette University	jeffrey.karst@marquette.edu	122.006, 130.142			
Kas, M. J. Brain Centre Rudolf Magnus	m.j.h.kas@umcutrecht.nl	127.065			

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Keown, C. L. San Diego State University	christopher.keown@gmail.com	115.064	Kim, S. Y. New York State Institute for Basic Research in Developmental Disabilities	Soh-Yule.Kim@opwdd.ny.gov	107.105
Kerin, T. K. University of Southern California	kerin@usc.edu	155.002	Kim, S. Baylor College of Medicine	sohyek@bcm.edu	122.007
Kerns, K. University of Victoria	kkerns@uvic.ca	144.135	Kim, S. J. Nazarene University	sjkim@kornu.ac.kr	117.113
Kerr, T. M. Vanderbilt University	travis.m.kerr@vanderbilt.edu	147.003	Kim, S. A. Eulji University Medical College	sakim@eulji.ac.kr	140.039
Keshavan, M. S. Harvard Medical School	mkeshava@bidmc.harvard.edu	108.176	King, B. H. University of Washington and Seattle Children's Hospital	bhking@u.washington.edu	125.037, 130.145
Kessler, S. K. Children's Hospital of Philadelphia	kessler@email.chop.edu	142.100	King, L. B. Medical University of South Carolina	kinglb@musc.edu	106.053, 106.055, 162.109
Ketelaar, L. Leiden University	lketelaar@fsw.leidenuniv.nl	141.085	King, T. Z. Georgia State University	tzking@gsu.edu	107.111
Keyzers, C. Netherlands Institute for Neuroscience, University of Groningen, University Medica Center Groningen	c.keyzers@nin.knaw.nl	108.138	Kirby, C. Université Laval	hermione_ck@hotmail.com	164.170
Khachoyan, A. Vanderbilt University	akhachoyan@gmail.com	130.176	Kirby, R. S. University of University of South Florida	rkirby@health.usf.edu	106.053
Khalulyan, A. University of California, Los Angeles	khalulyan89@gmail.com	117.126	Kircher, T. Philipps-University Marburg	kircher@med.uni-marburg.de	108.134
Khan, A. J. San Diego State University	jewell924@hotmail.com	115.064	Kiss, G. Oregon Health & Science University	geza.kiss@cslu.ogi.edu	130.160, 139.034
Khan, S. Y. Children's Hospital of Philadelphia	Skhan920@gmail.com	123.016, 129.131	Kissin, D. Centers for Disease Control and Prevention	dtk3@cdc.gov	104.002
Khan, S. Massachusetts General Hospital	sheraz@nmr.mgh.harvard.edu	122.003	Kistner-Griffin, E. Medical University of South Carolina	kistner@musc.edu	147.004
Khandge, P. New Jersey Medical School- University of Medicine & Dentistry of New Jersey	khandgpr@umdnj.edu	160.021	Kite, E. P. The University of California, Los Angeles	ekite3@gmail.com	120.006
Kharrazi, M. California Department of Public Health	marty.kharrazi@cdph.ca.gov	104.003	Kittler, P. M. NYS Institute for Basic Research in Developmental Disabilities	pkittler@gmail.com	163.142
Khouzam, A. Stanford University		149.004	Kitzbichler, M. G. Massachusetts General Hospital	manfredg@nmr.mgh.harvard.edu	122.003
Khowaja, M. Georgia State University	meenak621@aol.com	106.049	Kjelgaard, M. M. M. MGH Institute of Health Professions, MIT	mkjelgaard@mghihp.edu	141.078
Khundrakpam, B. McGill University	budha@bic.mni.mcgill.ca	115.041	Klaiman, C. Emory University School of Medicine and Marcus Autism Center	cheryl.klaiman@emory.edu	107.100, 154.005, 167.001
Kikuchi, Y. Japan Society for the Promotion of Science	yukko@darwin.c.u-tokyo.ac.jp	141.049, 141.052	Klann, E. New York University	eklann@cns.nyu.edu	153.003
Kim, B. N. Seoul National University Hospital, Seoul National University College of Medicine	kbn1@snu.ac.kr	130.143, 140.039	Klauck, S. M. Deutsches Krebsforschungszentrum (DKFZ)	s.klauck@dkfz.de	120.002, 127.073
Kim, C. Children's Hospital of Philadelphia	KIMC@chop.edu	127.069	Klein, C. L. Marietta College	00klein@gmail.com	108.167
Kim, E. M. M. Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine	eugene.kim@choa.org	103.003	Klein, P. S. Bar-Ilan University, Israel	Pninak@mail.biu.ac.il	157.006
Kim, E. K. Dankook University	eun67@dankook.ac.kr	130.143	Kleinhans, N. M. University of Washington	nkleinha@u.washington.edu	115.050
Kim, J. W. Seoul National University Hospital, Seoul National University College of Medicine	kimjw412@snu.ac.kr	140.039	Klin, A. Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine	ami.klin@emory.edu	103.003, 107.090, 107.123, 117.109, 117.120, 117.166, 123.004, 134.004, 138.033, 141.042, 144.149, 163.137, 163.144, 164.173, 167.001, 168.001
Kim, J. UCLA	JJKim@mednet.ucla.edu	161.076	Klinepeter, E. A. University of Notre Dame	eklinepe@nd.edu	162.121
Kim, J. H. Seoul National University Bundang Hospital	jhk77@hanmail.net	130.143	Klinger, L. G. University of North Carolina	laura_klinger@med.unc.edu	108.167, 108.168, 144.157, 160.011
Kim, K. M.I.N.D. Institute, UC Davis	kukkim@ucdavis.edu	144.161, 154.003, 164.166	Klinger, M. R. University of North Carolina, Chapel Hill	mark_klinger@med.unc.edu	108.167, 108.168, 160.011
Kim, S. H. Yale University School of Medicine	so-hyun.kim@yale.edu	134.001, 134.002, 138.031	Klohr, C. L. Washington University School of Medicine	klohrc@wusm.wustl.edu	127.084

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Klok-van Reedt Dortmund, S. School Cooperation		165.001	Krebs, M. O. INSERM Université Paris Descartes, Hôpital Sainte-Anne Laboratoire de Physiopathologie de Maladies Psychiatriques, LPMP	Marie-odile.krebs@inserm.fr	127.066
Knaus, T. A. Louisiana State University Health Sciences Center-N.O.	tknaus@lsuhsc.edu	164.154	Kresse, A. University of Washington	akresse@u.washington.edu	122.008, 136.018
Knutsen, J. University of Pennsylvania	dknutsen@dolphin.upenn.edu	141.060	Kretschmer, A. Technische Universitaet Dresden	kretschmer@psychologie.tu-dresden.de	144.160
Koch, A. D. Carl Gustv Carus University Hospital, Technische Universitaet Dresden	Andrea.Koch@uniklinikum-dresden.de	127.086	Kretzmann, M. University of California Los Angeles	mistermark@ucla.edu	109.001, 113.014, 130.173
Kodric, J. University Paediatric Hospital	jana.kodric@kclj.si	106.051	Kriz, D. J. Oregon Health & Science University	krizd@ohsu.edu	161.055
Koegel, L. K. University of California, Barbara, Koegel Autism Center	lynnk@education.ucsb.edu	124.035	Krueger, K. K. K. University of California Los Angeles	kathrynekrueger@gmail.com	112.004
Koegel, R. L. University of California, Santa Barbara, Koegel Autism Center	koegel@education.ucsb.edu	124.035	Krumm, N. University of Washington	nkrumm@gmail.com	155.008
Koenen, K. Columbia University Mailman School of Public Health	kck5@columbia.edu	119.001	Kuchna, I. New York State Institute for Basic Research in Developmental Disabilities	izabela.kuchna@opwdd.ny.gov	114.039
Kogan, M. D. Health Resources and Services Administration	mkogan@hrsa.gov	106.067	Kuhlthau, K. Harvard Medical School	kkuhlthau@partners.org	142.110
Koh, H. C. KK Women's and Children's Hospital	hwancui.koh@googlemail.com	107.094	Kuijper, S. J. M. University of Groningen, Center for Language and Cognition Groningen (CLCG)	s.j.m.kuijper@rug.nl	145.002
Kolevzon, A. Mount Sinai School of Medicine	alexander.kolevzon@mssm.edu	107.076, 126.056, 142.108	Kumar, A. MindSpec Inc.	ajay@mindspec.org	105.023
Kong, S. W. Children's Hospital Boston/ Harvard Medical School	sekwon.kong@childrens.harvard.edu	155.005	Kumar, A. University of Washington	akash1@u.washington.edu	155.008
Konidari, I. University of Miami	ikonidari@med.miami.edu	127.078	Kumar, J. University of Notre Dame	jkumar@alumni.nd.edu	128.104
Koning, C. Glenrose Rehabilitation Hospital	cyndie.koning@albertahealthservices.ca	107.102	Kumar, S. L. L. University of Alabama at Birmingham	sikumar@uab.edu	108.165
Konrad, K. University Hospital Aachen, Research Center Jülich	kkonrad@ukaachen.de	108.142	Kuriyama, K. Aichi Children's Health and Medical Center	kkuri67@yahoo.co.jp	141.046
Konopka, G. UT Southwestern Medical Center	genevieve.konopka@utsouthwestern.edu	105.012	Kuriyama, N. Seaside Therapeutics	nkuriyama@seasidetherapeutics.com	102.001
Koot, H. M. VU University	JM.Koot@psy.vu.nl	141.072, 157.002, 164.149	Kuroki, T. National Hospital Organization Hizen Psychiatric Center	toshik@npsych.med.kyushu-u.ac.jp	113.007
Kopp, M. Goethe-University	Marnie.Kopp2@kgu.de	127.073	Kushnerenko, E. University of East London	e.kushnerenko@gmail.com	163.140, 163.145
Koriakin, T. Kennedy Krieger Institute	Koriakin@kennedykrieger.org	123.010	Kuusikko-Gauffin, S. University of Oulu	sanna.kuusikkogauffin@oulu.fi	161.093
Koshy, B. Institute of Neuroscience, Newcastle university, Christian Medical College	beenakurien@cmcvellore.ac.in	106.047	Kwan, K. Yale University School of Medicine	kenneth.kwan@yale.edu	150.003
Kostopoulos, P. Montreal Neurological Institute, McGill University	penelope.kostopoulos@MCGILL.CA	128.119	Kyjonkova, H. University of Oxford	hana.kyjonkova@psy.ox.ac.uk	163.140
Kotsamanidis, B. Center for Visual Management	mailto:cvmbarbara@aol.com	162.116	Kyle, S. M. Baylor College of Medicine	smkyle@bcm.edu	102.004
Kotsopoulos, A. Technological Institute of Patras	lefkim46@hotmail.com	117.111, 124.023	Kylliäinen, A. University of Tampere	anneli.kylliainen@uta.fi	123.005, 143.134, 146.004
Kotsopoulos, S. Day Centre for Children with Developmental Disorders, EPSYPEA	epsypea1@otenet.gr	124.023	L		
Kovacs, E. Columbia University	ek2244@columbia.edu	142.110	Ladd-Acosta, C. Johns Hopkins University	claddaco@jhsp.edu	155.004, 159.007, 159.008
Kover, S. T. University of Wisconsin-Madison	kover@wisc.edu	117.140	Laden, F. Harvard School of Public Health	nhfri@channing.harvard.edu	119.001
Krach, S. Philipps-University Marburg	krachs@med.uni-marburg.de	108.134, 141.050	Ladjahasan, N. Iowa State University	nading@iastate.edu	117.128, 117.145
Krakoviak, P. University of California	prakraviak@ucdavis.edu	121.003	Ladwig, E. Queen's University	ladwige@queensu.ca	144.177, 164.169
Kral, T. V. E. V. University of Pennsylvania School of Nursing	tkral@nursing.upenn.edu	164.159	LaGasse, L. L. Women & Infants Hospital, The Warren Alpert Medical School of Brown University	llagasse@wihri.org	117.170
Krall, S. Research Center Jülich, University Hospital Aachen	s.krall@fz-juelich.de	108.142	Lahera, G. University of Alcalá	guillermo.lahera@gmail.com	141.063, 141.066

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Lai, M. C. University of Cambridge	mc145@cam.ac.uk	108.145, 108.158	Lartseva, A. Radboud University Nijmegen Medical Centre, Donders Institute for Brain, Cognition and Behaviour, Max Planck Institute for Psycholinguistics	a.lartseva@donders.ru.nl	136.020
Lainhart, J. E. Waisman Center, University of Wisconsin-Madison	janet.lainhart@hsc.utah.edu	112.001, 115.056, 115.062, 115.073	Lasorsa, F. National Research Council of Italy (CNR)	francesca.lasorsa@yahoo.it	117.137
Lainhart, J. E. University of Utah	janet.lainhart@hsc.utah.edu	115.046, 164.162	Laugeson, E. UCLA Semel Institute for Neuroscience & Human Behavior	elaugeson@mednet.ucla.edu	106.069, 117.141, 117.158, 117.161, 123.014, 130.138, 130.143, 141.080, 154.001, 154.002, 154.004, 161.094
Lajiness-O'Neill, R. University of Michigan Health System	rloneill@med.umich.edu	108.164	Laumonier, F. Inserm UMR930	frederic.laumonier@med.univ-tours.fr	120.007
Lake, J. K. K. University of Toronto, Centre for Addiction and Mental Health	johanna_lake@camh.net	116.092, 162.107	Launay, J. M. Hôpital Lariboisière,	jean-marie.launay@lrb.aphp.fr	111.007
Lam, S. The University of Hong Kong	sylvia.lam@hku.hk	133.006	Lauritsen, M. B. Aarhus University Hospital	marlene.lauritsen@rn.dk	106.074
Lam, Y. M. Queen's University	lamm@queensu.ca	106.048	Lavie, N. Institute of Cognitive Neuroscience, UCL	n.lavie@ucl.ac.uk	144.172
Lambert, A. E. University of Virginia	Ann.lambert@virginia.edu	116.081	Laviola, G. Istituto Superiore di Sanità	giovanni.laviola@iss.it	105.020
Lambert, C. G. Golden Helix, Inc.	lambert@goldenhelix.com	127.069	Law, J. K. Kennedy Krieger Institute	lawk@kennedykrieger.org	116.089, 167.007
Lambha, M. Marcus Autism Center	meenakshi.lambha@choa.org	106.066	Law, M. McMaster University	lawm@mcmaster.ca	127.088
Lambrechts, A. City University London	anna.lambrechts.2@city.ac.uk	126.059, 141.074, 168.005	Law, P. A. Kennedy Krieger Institute	lawp@kennedykrieger.org	102.006, 116.089, 167.007
Lambrechts, G. Parenting and Special Education Research Unit, University of Leuven (KU Leuven), Leuven Autism Research (LAuRes)	greet.lambrechts@ppw.kuleuven.be	103.006, 137.025, 160.028	Lawer, L. J. J. Drexel University	ljl42@drexel.edu	132.002
Lampi, K. M. University of Turku	katja.lampi@utu.fi	106.056	Lawrence, K. Royal Holloway	k.lawrence@ucl.ac.uk	107.095
Landa, R. Kennedy Krieger Institute	landa@kennedykrieger.org	102.002, 107.098, 112.004, 117.171, 124.031, 161.068	Lawson, K. Albert Einstein College of Medicine	krlawson@aecom.yu.edu	142.094
Landau, A. M. Center of Functionally Integrative Neuroscience, Aarhus University, PET-Centre, Aarhus University Hospital	annielandau@gmail.com	105.005	Lawson, R. Loyola University Maryland, Children's National Medical Center	rlawson@loyola.edu	144.159
Landi, N. Haskins Laboratories	nicole.landi@yale.edu	136.009	Lazaro, M. T. University of California at Los Angeles	maite09@ucla.edu	133.005
Landolfi, P. PANAAACEA	pierinalandolfi@panaacea.org	106.063	Lázaro Garcia, L. Hospital Clinic of Barcelona	llazaro@clinic.ub.es	115.055
Lane, A. E. E. The Ohio State University	lane.350@osu.edu	103.004, 107.108, 160.039	Le, L. The Children's Hospital of Philadelphia	lel@email.chop.edu	161.080, 161.081
Lane, D. M. Rice University	lane@rice.edu	161.065	Le Couteur, A. S. Newcastle University	a.s.le-couteur@ncl.ac.uk	107.080, 130.149, 143.129, 160.012, 161.084, 166.001
Lang, M. J. Azusa Pacific University	mjang@beacondayschool.com	161.090	Le Menn Tripi, C. CHRU de Tours	c.lemenn@chu-tours.fr	126.052
Lange, N. Harvard University Schools of Medicine & Public Health, McLean Hospital	nlange@hms.harvard.edu	112.001, 115.046, 115.073, 164.162	Le Sourd, A. M. CNRS UMR 2182	lesourd@pasteur.fr	133.001
Langen, M. Rudolf Magnus Institute of Neuroscience, University Medical Center Utrecht	m.langen@umcutrecht.nl	127.081	Le-Couteur, A. S. Institute of Health and Society, Newcastle University	a.s.le-couteur@newcastle.ac.uk	106.047
Langhorst, B. H. Oregon Health & Science University	drblanghorst@comcast.net	130.160	Leadbitter, K. University of Manchester	Kathy.Leadbitter@manchester.ac.uk	104.001, 106.073, 117.147, 164.167
Langley, K. Cardiff University	langleyk@cardiff.ac.uk	161.060	Leblond, C. Ph.D Institut PASTEUR	claire.leblond@pasteur.fr	133.001
Lanza, M. R. Children's Hospital of Philadelphia	lanzam@email.chop.edu	123.016, 129.131	Leboyer, M. INSERM U 955, Hôpital Chenevier-Mondor	marion.leboyer@inserm.fr	111.007, 127.070
Lappenschaar, M. G. A. Institute for Computing and Information Science, Radboud University	m.lappenschaar@science.ru.nl	145.001	Lebreton, M. institut du Cerveau et de la Moelle	mael.lebreton@gmail.com	141.088
Laranjeira, C. CH Charles Perrens	claranjeira-heslot@ch-perrens.fr	126.052	Leckman, J. F. Yale University	james.leckman@yale.edu	156.002
Larkin, F. University College, Dublin	nularkin@gmail.com	143.122	Ledbetter, D. H. Geisinger Health System, Bucknell University	dhledbetter@geisinger.edu	127.061
Larson, M. J. Brigham Young University	michael_larson@byu.edu	141.075	Lee, A. University of California Davis Medical Center	arolee@ucdavis.edu	108.169, 156.003

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Lee, B. K. Drexel University School of Public Health	bklea@drexel.edu	104.004, 159.007, 159.008	Leppert, M. University of Utah	mleppert@genetics.utah.edu	127.069
Lee, C. University of Washington	chollee@uw.edu	155.008	Leppert, T. University of Utah	tami.leppert@genetics.utah.edu	127.069
Lee, E. Hallym university	01036754464@cyworld.com	106.064	Leppänen, J. M. University of Tampere	jukka.leppanen@uta.fi	123.005
Lee, G. Y. Stanford University	gracelee@stanford.edu	143.119	Lera Miguel, S. Hospital Clinic of Barcelona	slera@clinic.ub.es	141.077, 144.140
Lee, H. Yeung Nam University	hjee@ynu.ac.kr	117.113	Lerch, J. P. The Hospital for Sick Children	jason@phenogenomics.ca	115.061, 149.001
Lee, I. UCL Institute of Child Health	irene.lee@ucl.ac.uk	140.040	Leseman, P. Utrecht University	P.P.M.Leseman@uu.nl	126.053
Lee, J. University of California, Los Angeles	j_lee37@yahoo.com	137.029	Lesh, T. A. UC Davis, Imaging Research Center	talesh@ucdavis.edu	108.171
Lee, J. M. University of Miami Miller School of Medicine	jlee1@med.miami.edu	127.082	Lesnik Musek, P. Univ. Paediatric Hospital	lesnik.musek@siol.net	106.051
Lee, L. C. Johns Hopkins Bloomberg School of Public Health	llee2@jhsp.edu	104.008, 117.123, 125.036, 160.031	Lester, B. M. Women & Infants Hospital, The Warren Alpert Medical School of Brown University	Barry_Lester@brown.edu	117.167, 117.170
Lee, N. R. R. National Institute of Mental Health	lnancy@mail.nih.gov	160.030	Letovsky, S. SynapDx Corp	sletovsky@synapdx.com	107.082
Lee, R. W. Kennedy Krieger Institute	leer@kennedykrieger.org	115.053, 129.130	Letzen, J. E. University of Florida	jletzen@php.ufl.edu	129.134
Lee, W. Hospital for Sick Children	wayne.lee@sickkids.ca	108.154, 115.070	Leung, D. Curtin University	denise.leung@student.curtin.edu.au	117.142
Lee, W. H. Kyung Hee University Medical Center	berbetlee@hanmail.net	130.143	Leung, J. K. Yale School of Medicine	jennifer.k.leung@yale.edu	156.006
Lee, Y. Hallym university	ylee@hallym.ac.kr	106.064	Leung, R. University of Toronto, Hospital for Sick Children	rachel.leung@sickkids.ca	108.136
Leekam, S. R. Cardiff University	LeekamSR@cardiff.ac.uk	107.080, 116.095, 116.106, 117.165, 161.084, 166.005	Lever, A. G. University of Amsterdam	a.g.lever@uva.nl	164.164
Leemans, A. University Medical Center Utrecht	Alexander@isi.uu.nl	115.044	Levin, A. R. Boston Children's Hospital	April.Levin@childrens.harvard.edu	136.017
Leger, E. Université François Rabelais, INSERM U930	elodie.leger@etu.univ-tours.fr	117.153	Levine, T. P. The Warren Alpert Medical School of Brown University, Women & Infants Hospital	tlevine@wihri.org	117.170
Lehner, T. National Institute of Mental Health	tlehner@mail.nih.gov	127.072	Levy, R. University of Washington	roie.levy@gmail.com	155.008
Lehtimäki, T. Tampere University and University Hospital	terho.lehtimaki@uta.fi	140.040	Levy, S. E. Children's Hospital of Philadelphia	levys@email.chop.edu	104.008, 115.066, 116.079, 123.016, 129.126, 129.131, 142.109
Lehto, A. Institute of Clinical Medicine, University of Oulu	lehtoanne@gmail.com	162.114	Levy, Y. The Hebrew University of Jerusalem, Hadassah-Hebrew University Medical School	yonatalevy@gmail.com	141.055
Lehtonen, A. Central Manchester University Hospitals NHS Foundation Trust	Annukka.lehtonen@postgrad.Manchester.ac.uk	104.001	Lewis, G. University of Bristol	glyn.lewis@bristol.ac.uk	104.004
Lemcke, S. Aarhus University Hospital	sanne.lemcke@ps.rm.dk	106.074	Lewis, J. D. McGill University	jlewis@bic.mni.mcgill.ca	115.041, 115.051, 129.124
Lemelman, A. R. University of Alabama at Birmingham	amylemel@uab.edu	108.161	Lewis, P. Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine	peter.lewis@choa.org	134.004, 167.001
Lemon, O. Heriot Watt University	o.lemon@hw.ac.uk	130.157	Li, A. The University of California, Los Angeles	alvin.w.li@gmail.com	120.006
Lenggenhager, B. University Hospital of Child and Adolescent Psychiatry	bigna.lenggenhager@gmail.com	160.029	Li, A. S. Queen's University	6asmli@queensu.ca	126.058, 136.019
Lenroot, R. University of New South Wales	r.lenroot@unsw.edu.au	115.060	Li, B. Vanderbilt University	bingshan.li@vanderbilt.edu	147.004
Leon, O. Tel Hashomer, Safra Children's Hospital	odelialeon@gmail.com	162.111	Li, D. D. University of California Davis Medical Center	dehua.li@ucdmc.ucdavis.edu	106.045, 108.169, 156.003
Leoncini, S. University of Siena	leoncini74@yahoo.it	135.002	Li, I. T. Calo Hospital	bonniebeckham@gmail.com	117.123, 125.036
Lepage, C. Sutter Neuroscience Institute	lepagec@sutterhealth.org	117.128, 117.145	Li, M. Yale University School of Medicine	mingfeng.li@yale.edu	150.003, 150.004
Lepore, F. Centre de Recherche en Neuropsychologie et Cognition (CERNEC), Université de Montréal	franco.lepore@umontreal.ca	126.040	Li, Q. The University of Hong Kong	liqi@hkucc.hku.hk	133.006
			Li, Q. Nankai University		144.164

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Li, X. Beijing Normal University	xiaoli@bnu.edu.cn	164.174	Logan, S. L. L. Medical University of South Carolina	logans@musc.edu	162.109
Li, Y. BGI-Shenzhen	liyr@genomics.cn	155.006	Loh, A. Hospital for Sick Children, University of Toronto	alvin.loh@surreyplace.on.ca	142.104
Libero, L. E. University of Alabama at Birmingham	lel123@uab.edu	108.162, 108.163	Lombardo, M. V. University of Cambridge	m1437@cam.ac.uk	108.145, 108.158
Lichtenstein, P. Karolinska Institutet	Paul.Lichtenstein@ki.se	115.043, 144.142	London, E. NYS Institute for Basic Research in Developmental Disabilities	naarlondon@gmail.com	114.039
Lidstone, J. Cardiff University	LidstoneJ@cardiff.ac.uk	161.084	Lopez, M. Dennis Development Center	mayaliza@aol.com	160.040
Lightbody, A. A. Stanford University	aal@stanford.edu	154.005	Lord, A. University of Rochester	alyssa.lord@gmail.com	123.018, 126.047
Lim, H. H. KK Women's and Children's Hospital	lim.hong.huay@khh.com.sg	107.094	Lord, C. Weill Cornell Medical College	cal2028@med.cornell.edu	107.075, 107.097, 109.002, 111.001, 121.004, 125.037, 130.145, 143.126, 157.004, 157.005
Lim, S. National University of Singapore	a0075321@nus.edu.sg	107.094	Lorda, M. J. Adapta Consultores	marialordasanchez@gmail.com	141.059
Lin, C. E. UCLA Semel Institute for Neuroscience & Human Behavior	enjoylin@ucla.edu	154.004, 161.094	Lorenzo-Hubert, I. Georgetown University	lorenzoh@georgetown.edu	113.010
Lin, D. Harvard-MIT Division of Health Sciences and Technology	David_Lin@hms.harvard.edu	163.137	Lori, A. Emory University School of Medicine	alori@emory.edu	140.040
Lin, I. F. NTT Communication Science Laboratories, NTT Corp.	ifan1976@hotmail.com	136.021	Loring, W. A. Vanderbilt University	whitney.a.loring@vanderbilt.edu	107.096, 111.004, 113.029, 149.003
Lin, Y. L. University of New Mexico	yllin@unm.edu	162.125	Lorini, C. Florence University	chiara.lorini@unifi.it	117.151
Lin, Z. Yale University School of Medicine	zhixiang.lin@yale.edu	150.004	Losh, M. Northwestern University	m-losh@northwestern.edu	117.131, 117.144
Linares-Orama, N. University of Puerto Rico	nicolas.linares@upr.edu	117.130	Lottspeich, F. Max-Planck-Institute of Biochemistry	lottspei@biochem.mpg.de	120.002
Linas, K. Georgetown University	kl357@georgetown.edu	113.010	Lougeay, J. UTD	lougeay@utdallas.edu	106.038
Lind, S. E. Durham University	sophie.lind@durham.ac.uk	141.061, 141.065, 168.004	Louwerse, S. C. Erasmus MC-Sophia	s.louwerse@erasmusmc.nl	161.078
Lindly, O. Oregon Health & Science University	lindly@ohsu.edu	113.019	Loveland, K. A. University of Texas Medical School	Katherine.A.Loveland@uth.tmc.edu	104.005, 161.065
Lingford-Hughes, A. Imperial College London	anne.lingford-hughes@imperial.ac.uk	108.151	Lowenthal, R. II Federal University of São Paulo	rosane_lowenthal@hotmail.com	106.052
List Hilton, C. Washington University School of Medicine, St. Louis, Missouri	hiltonc@wusm.wustl.edu	106.068	Lowry, J. Newcastle University	jessica.lowry@ncl.ac.uk	130.162
Liston, S. UC Davis M.I.N.D. Institute	sarahliston@gmail.com	156.003	Lozada, J. CEA LIST	jose.lozada@cea.fr	128.101
Lit, L. University of California, Davis	llit@ucdavis.edu	105.017	Lucas, M. V. Yale University	molly.lucas@yale.edu	156.002
Little, L. M. University of North Carolina at Chapel Hill	littelle@email.unc.edu	103.001, 143.118	Lucas, R. Royal Holloway University of London	rebecca.lucas.2010@rhul.ac.uk	117.168
Livermore-Hardy, V. Great Ormond Street Hospital	Vaan.Livermore-Hardy@gosh.nhs.uk	130.148, 164.151	Lucchina, L. IFIByNE, UBA-CONICET	llucchina@gmail.com	105.008
Living Varela Orozco, K. Hospital Psiquiátrico Infantil	karen_living@hotmail.com	106.068	Lucyga, S. University of California, Santa Barbara, Koegel Autism Center	selucyga@gmail.com	124.035
Livingstone, N. Queen's University Belfast	nuala.livingstone@qub.ac.uk	166.001	Ludovise, R. Oregon Health & Science University	ludovise@ohsu.edu	130.160
Llorente, C. Child and Adolescent Psychiatry Department, CIBERSAM, Instituto de Investigación Sanitaria Gregorio Marañón, IISGM. Hospital General Universitario Gregorio Marañón	cloellorente@gmail.com	116.104, 128.114	Ludwig, N. N. Georgia State University	natashaludwig@gmail.com	111.006
Locke, J. J. J. Perelman School of Medicine, University of Pennsylvania	jlocke@upenn.edu	113.014	Luebke, A. E. University of Rochester Medical Center	anne_luebke@urmc.rochester.edu	123.018, 126.047
Lockhart, P. Bruce Lefroy Centre for Genetic Health Research, MCRI	paul.lockhart@mcri.edu.au	160.027	Lundgren, T. Stockholm University, Department of Psychology	tobias.lundgren@psychology.su.se	130.147
Loesch, D. La Trobe University	d.loesch@latrobe.edu.au	160.036	Lundqvist, D. Karolinska Institutet	daniel.lundqvist@ki.se	128.102, 141.068
Logan, M. University of Kansas Medical Center	mlogan@kumc.edu	162.105	Lung, F. W. Taipei City Hospital	DAT01@tpech.gov.tw	117.123, 125.036
			Lunsky, Y. Centre for Addiction and Mental Health	yona_lunsky@camh.net	116.092, 161.062, 162.107

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Luo, R. UCLA,UCLA	luoruicd@gmail.com	155.001	Mahoor, M. H. H. University of Denver	mmahoor@du.edu	130.161
Luong-Tran, C. Children's National Medical Center	cluongtr@childrensnational.org	130.141, 130.164, 157.001, 161.089	Maidment, N. T. University of California at Los Angeles	nmaidmen@ucla.edu	133.005
Lux, M. Safra Children's Hospital	mayalux83@gmail.com	143.116	Maisel, S. Boston Children's Hospital	Simon.Maisel@childrens.harvard.edu	161.100
Ly, A. R. University of Delaware	aly@psych.udel.edu	117.122, 121.002	Malchiodi-Albedi, F. Istituto Superiore di Sanità	fiore23453@gmail.com	105.020
Ly, M. Marcus Autism Center,	mly3@emory.edu	107.090, 107.123	Malhi, P. Post Graduate Institute of Medical Education and Research	pmalhi18@hotmail.com	113.002
Lyall, K. University of California, Davis	klyall@hsph.harvard.edu	106.065, 119.001, 161.082, 166.008	Malhotra, D. University of California San Diego	dmalhotra@ucsd.edu	155.006
Lynch, C. Stanford University	clynch1@stanford.edu	108.127, 149.004	Maljaars, J. P. W. University of Leuven (KU Leuven), Leuven Autism Research (LAuRes)	jarymke.maljaars@ppw.kuleuven.be	103.006, 107.080, 137.025, 160.028
Lyons, J. L. McMaster University	lyonsjl@mcmaster.ca	126.050	Maloney, S. E. Washington University	maloneys@psychiatry.wustl.edu	105.009
Lyons, K. K. Private practice	drkarakelleylyons@gmail.com	162.117	Malow, B. A. Vanderbilt University	beth.malow@vanderbilt.edu	116.093, 142.104, 142.109
M			Mamelak, A. Cedars-Sinai Medical Center	Adam.Mamelak@cshs.org	137.023
Ma, P. University of North Texas	phoenix.ma@unt.edu	130.169	Mameli, M. Institut du Fer a Moulin	manuel.mameli@inserm.fr	105.010
Macari, S. Yale University School of Medicine	suzanne.macari@yale.edu	134.001, 134.002, 138.031	Mammone, A. Paediatric Hospital Bambino Gesù	alessiamammone@gmail.com	124.026
Macdonald, G. Queen's University Belfast	geraldine.macdonald@qub.ac.uk	166.001	Mandell, D. S. Perelman School of Medicine at the University of Pennsylvania	mandell@upenn.edu	110.008, 113.013, 113.014, 117.139, 132.001, 132.002
Macedoni-Luksic, M. Univ. Paediatric Hospital	mmacedoni@gmail.com	106.051	Mandy, W. Faculty of Brain Sciences, UCL	w.mandy@ucl.ac.uk	107.095, 107.103, 110.003, 112.008, 113.004, 116.083, 127.096, 130.146, 130.148, 140.038, 160.024, 163.138, 164.151
MacFarland, M. C. C. Michigan State University	macfar31@msu.edu	124.034, 162.124	Manett, J. The Redpath Centre	jason.manett@redpathcentre.ca	142.097
Machado, S. B. B. Jr. BAHIANA School of Medicine and Public Health	samueljr15_fsa@hotmail.com	161.097	Manjiviona, J. Private Practice	janine.m007@optusnet.com.au	117.143
MacKechnie, R. UCL Institute of Child Health	rebecca.mackechnie@bath.edu	160.017	Mankoo, R. S. University of Missouri	rsmgxf@health.missouri.edu	142.112
MacKenzie, E. H. Wired Fox Publications	emackenzie2@cogeco.ca	130.151	Manning, C. Centre for Research in Autism & Education	c.manning@joe.ac.uk	126.045
Madduri, N. Vanderbilt University	nirupama.madduri@vanderbilt.edu	142.104	Manning, C. University of Connecticut	courtney.manning@uconn.edu	106.061
Madsen, G. F. F. Child and Adolescent Psychiatry, University of Southern Denmark	gitte.falcher.madsen@psyk.regionsyddanmark.dk	136.015, 144.170	Manning-Courtney, P. Cincinnati Children's Hospital Medical Center	patty.manning@cchmc.org	103.004
Maenner, M. J. University of Wisconsin-Madison	mjmaenner@wisc.edu	106.032, 106.053	Mansour, R. University of Texas Medical School	Rosleen.Mansour@uth.tmc.edu	161.065
Maes, B. Parenting and Special Education Research Unit, University of Leuven	Bea.Maes@ppw.kuleuven.be	137.025	Marandi, M. University of Isfahan	smmarandi2001@yahoo.com	164.177
Maestro, S. University of Pisa-Stella Maris Scientific Institute	sandra.maestro@inpe.unipi.it	107.114, 107.122	Maras, A. Yulius	a.maras@yulius.nl	167.002
Maffre, T. CHU de Toulouse	th.maffre@orange.fr	126.052, 128.118	Maras, K. L. University of Bath	katie.maras.1@city.ac.uk	168.005
Magán Maganto, M. University of Salamanca	mmmaria@live.com	104.007	Marchese, M. Stella Maris Scientific Institute	mmarchese@inpe.unipi.it	142.102
Magana, S. University of Illinois at Chicago	maganas@uic.edu	116.101	Marchi, E. Technische Universität München	erik.marchi@tum.de	128.102, 128.108
Magiati, I. National University of Singapore	psylim@nus.edu.sg	107.094, 161.067, 161.099	Marcil, E. Perceptual Neuroscience Laboratory for Autism and Development (PNLab), McGill University	evelynmarcil@gmail.com	144.147
Magnee, M. Hogeschool van Arnhem en Nijmegen	maurice.magnee@han.nl	116.091	Marco, E. University of California San Francisco	marcoe@neuropeds.ucsf.edu	108.156, 126.057, 129.128, 142.100
Magnusson, C. Karolinska Institutet	cecilia.magnusson@ki.se	104.004	Marcus, S. C. University of Pennsylvania	marcussc@sp2.upenn.edu	132.002
Mahalalalel, N. The Hebrew University of Jerusalem	noall@gmail.com	141.055	Mari, J. J. Federal University of São Paulo	jamari17@gmail.com	106.052
Mahalchak, J. R. University of Pittsburgh	jrm182@pitt.edu	129.132			
Maharaj, A. V. Florida International University	andremaharaj@gmail.com	164.172			
Maher, E. M. M. University of Sydney	libbymaher@bigpond.com	124.033, 143.125			
Mahieu, N. G. Washington University	nathaniel.mahieu@wustl.edu	105.009			

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Marinas, L. Príncipe de Asturias University Hospital	lylia7@hotmail.com	141.066	Mastroguseppe, M. University of Trento	m.mastroguseppe-1@unitn.it	117.150, 164.150
Maristany, M. Hospital Sant Joan de Déu	Mmaristany@hsjdbcn.org	127.091	Máté, Z. Institute of Experimental Medicine	matez@koki.hu	105.026
Marlow, N. UCL Institute for Women's Health	n.marlow@ucl.ac.uk	107.093	Mathy, P. Kennedy Krieger Institute	Mathy@kennedykrieger.org	102.002, 112.004, 117.171
Maroullat, S. Inserm UMR930	sylviane.vedrine@univ-tours.fr	120.007	Matsuda, S. Keio University, Japan Society for the Promotion of Science	atom.opens.the.stargate@gmail.com	130.156
Marques, C. Hospital Pediátrico Carmona da Mota (HP)-Centro Hospitalar e Universitário de Coimbra (CHUC)	carlacmarques@sapo.pt	162.104	Matsuda, T. Tamagawa University	tetsuya@lab.tamagawa.ac.jp	162.126
Marrinan, G. A. A. Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine	gmarrin@emory.edu	141.042	Matsumoto, K. Aichi Children's Health and Medical Center	rocabar1105@hotmail.co.jp	141.046
Marrus, N. Washington University School of Medicine	marrusn@psychiatry.wustl.edu	162.119	Matsunami, N. University of Utah	nmatsunami@genetics.utah.edu	127.069
Marsh, L. E. E. University of Nottingham	lpxlm1@nottingham.ac.uk	141.067	Matsuo, H. Saint Louis University	matsuoh@slu.edu	162.115
Marshall, S. L. Boston Children's Hospital	stephanie.marshall@childrens.harvard.edu	108.135	Matsuzaki, H. Research Center for Child Mental Development, Hamamatsu University School of Medicine	matsu-mdrc@umin.ac.jp	159.009
Martin, A. National Institute of Mental Health	alexmartin@mail.nih.gov	115.058, 115.060	Mattei, H. F. UPR School of Public Health	hernando.mattei@upr.edu	105.015
Martin, B. University of Washington	martin91@uw.edu	155.008	Matteoli, M. University of Milano	michela.matteoli@unimi.it	135.003
Martin, E. R. University of Miami Miller School of Medicine	emartin1@med.miami.edu	127.078	Matthews, F. E. University of Cambridge	fiona.matthews@mrc-bsu.cam.ac.uk	102.008
Martin, G. University of North Carolina at Chapel Hill	gary.martin@unc.edu	117.131	Matthews, N. L. L. University of California, Irvine	nbasehor@uci.edu	121.002
Martin, J. C. CNRS/ Université Paris-Sud	martin@limsi.fr	144.151	Matthews, S. University of Notre Dame	smatthe3@nd.edu	162.121
Martin, J. Cardiff University	martinj1@cardiff.ac.uk	161.060	Matthies, H. Vanderbilt University	heiner.matthies@vanderbilt.edu	127.064
Martin, L. Ph.D Azusa Pacific University	lamartin@apu.edu	105.024, 161.090	Mattila, M. L. University of Oulu	marja-leena.mattila@finnet.fi	161.093
Martin Cilleros, M. V. University of Salamanca	viquimc@usal.es	104.007	Mattox, K. University of Oregon	kmattox@uoregon.edu	132.006
Martinerie, J. CNRS UMR 7225,UPMC, INSERM U975,ICM	jacques.martinerie@upmc.fr	108.174	Mauldin, T. The Johnson Center for Child Health and Development	tmauldin@johnson-center.org	107.078
Martinez, N. PANAACEA	nataliamartinez@panaaceea.org	106.063	Maurer-Martinez, A. P. Iberoamericana University School of Psychology		106.068
Martinez, S. Baylor College of Medicine	smartin@bcm.edu	122.007	Mavropoulou, S. Department of Special Education, University of Thessaly	smavrop@uth.gr	130.165
Martinez Cerdeno, V. Institute for Pediatric Regenerative Medicine	vmartinezcerdeno@ucdavis.edu	102.005	Maxim, R. Saint Louis University School of Medicine		162.115
Martinez-Mir, A. Instituto de Biomedicina de Sevilla, Hospital Universitario Virgen del Rocío/CSIC/ Universidad de Sevilla.	amm-ibis@us.es	105.011	Maxwell, C. R. Children's Hospital of Philadelphia	crmaxwell@gmail.com	137.028
Martins, A. L. B. B. UNESP	anabossolani@gmail.com	127.093	May, C. D. University of Newcastle	Chris.May@newcastle.edu.au	143.133
Martins, S. R. N. R. Great Ormond Street Hospital NHS Foundation Trust	sararnm@hotmail.com	110.003	Mayer, J. University of Roehampton, Goldsmiths College, University of London	jennifer.mayer@roehampton.ac.uk	164.163
Martire, A. Istituto Superiore di Sanità	alberto.martire@iss.it	105.025	Mayes, L. Yale Child Study Center	linda.mayes@yale.edu	123.003, 136.009
Martorello, V. L. PANAACEA	veronicamartorello@panaaceea.org	106.063	Maynard, D. Canadian Association of Pediatric Health Centers	dmaynard@caphc.org	127.068
Masataka, N. Kyoto University	masataka.nobuo.7r@kyoto-u.ac.jp	168.007	Mazefsky, C. A. University of Pittsburgh School of Medicine	mazefskyca@upmc.edu	161.087
Maskey, M. Institute of Neuroscience, Newcastle University	morag.maskey@newcastle.ac.uk	106.047, 130.162	Mazur, S. L. University of Notre Dame	smazur1@nd.edu	116.107, 162.121
Massolo, M. PANAACEA	manuelmassolo@panaaceea.org	106.063	Mazurek, M. O. University of Missouri	mazurekm@missouri.edu	115.065
Massolo, M. L. Kaiser Permanente Division of Research	Maria.L.Massolo@kp.org	106.054, 106.063	McAdam, C. Heriot-Watt University	clair.mcadam@hotmail.co.uk	141.054
			McAlonan, G. M. The University of Hong Kong, Institute of Psychiatry, King's College London	grainne.mcalonan@kcl.ac.uk	132.003, 133.006

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
McArdle, W. L. University of Bristol	Wendy.McArdle@bristol.ac.uk	140.038	McMahon, W. M. University of Utah	william.mcmahon@hsc.utah.edu	130.154, 148.001, 148.002, 148.003, 148.004, 160.046
McBee, M. University of North Carolina	matt.mcbee@unc.edu	117.152	McMichael, A. R. Washington University	amanda.mcmichael@gmail.com	129.132
McCall, B. P. University of Michigan	bpmccall@umich.edu	106.042	McMorris, C. A. York University	camcmorr@yorku.ca	116.092
McCann, J. Queen Margaret University	JMcCann@qmu.ac.uk	117.148	McMullen, P. A. Dalhousie University	mcmullen@dal.ca	144.158
McCarthy, B. University of California, Los Angeles	kgillyn@gmail.com	117.126, 138.032	McNally, S. Trinity College Dublin	mcnalls1@tcd.ie	163.127
McClure, I. NHS Lothian, University of Edinburgh	iain.mcclure@ed.ac.uk	107.119, 107.120, 107.121	McNulty, E. A. A. Grant Macewan University	lizmcnulty@hotmail.ca	117.146
McConachie, H. Institute of Health and Society, Newcastle University	h.r.mcconachie@ncl.ac.uk	106.047, 107.115, 113.001, 117.147, 130.149, 130.162, 143.113, 143.129, 160.012, 161.075, 161.084, 162.122, 164.167, 166.001	McPartland, J. C. Yale Child Study Center	james.mcpartland@yale.edu	122.008, 123.001, 123.003, 123.004, 136.009, 136.012, 136.018, 136.022
McConnell, D. University of Alberta	david.mcconnell@ualberta.ca	116.088	Meaux, E. Hospital for Sick Children, INSERM U930	meauxemilie@gmail.com	108.157
McCormick, C. UC Davis M.I.N.D. Institute	carolyn.mccormick@ucdmc.ucdavis.edu	151.003	Medrano, E. Hospital de Especialidades Pediátricas	toledomedrano@cantv.net	106.034
McCracken, J. T. University of California, Los Angeles	jmccracken@mednet.ucla.edu	167.005	Medved, M. University of Manitoba	medved@cc.umanitoba.ca	117.146
McDermott, M. H. H. Children's Hospital of Philadelphia	mcdermott@email.chop.edu	108.173	Medvedeva, V. Institut du Fer a Moulin	vera.medevedeva@inserm.fr	105.010
McDonald, G. Marquette University	grand.mcdonald@mu.edu	122.006, 130.142	Meffert, H. NeuroImaging Center Groningen	h.meffert@med.umcg.nl	108.138
McDougle, C. Indiana University School of Medicine	cmcdougl@iupui.edu	167.005	Mefford, H. C. University of Washington	hmefford@u.washington.edu	155.008
McEvelly, R. J. San Diego School of Medicine, UCSD	rmcevilly@ucsd.edu	105.019	Mehta, S. Semel Institute/UCLA	sqmehta@gmail.com	105.029
McEvoy, K. UCLA	kmoevoy@ucla.edu	122.005	Meir, N. Compedia Ltd	nogam@compedia.co.il	128.102
McEwen, F. SGDP, IoP, King's College London	fiona.mcewen@kcl.ac.uk	107.087, 161.079	Meko, K. IWK Health Centre	katelyn.meko@iwk.nshealth.ca	143.123
McGettrick, O. Prometheus Research, LLC	owen@prometheusresearch.com	128.122	Melfi, D. PANAACEA	danielamelfi@panaacea.org	106.063
McGillivray, J. A. Deakin University	mcgill@deakin.edu.au	117.143	Melmed, R. Southwest Autism Research Center and Melmed Center	Raun.Melmed@melmedcenter.com	102.001
McGrath, J. Trinity College Dublin	jane.mcgrath@tcd.ie	108.128, 115.044	Melnyk, S. University of Arkansas for Medical Sciences	melnykstepanb@uams.edu	120.003, 142.098, 159.006
McGrath, S. University of North Carolina at Chapel Hill	sara.mcgrath@unc.edu	117.131	Memon, A. Royal Holloway, University of London	Amina.Memon@rhul.ac.uk	168.005
McGrew, J. H. H. Indiana University-Purdue University Indianapolis	jmcgrew@iupui.edu	113.028	Menashe, I. MindSpec Inc.	menashe.idan@gmail.com	105.023
McIntyre, N. U.C. Davis	nsmcintyre@ucdavis.edu	117.138, 144.161, 154.003, 164.166	Menassa, D. A. A. University of Oxford	david.menassa@univ.ox.ac.uk	114.033, 122.001
McKavanagh, R. University of Oxford	rebecca.mckavanagh@st-annes.ox.ac.uk	115.059	Mendez, C. University of Santiago	castor.mendez@usc.es	141.059
McKeague, I. W. Columbia University Mailman School of Public Health	im2131@columbia.edu	106.058	Mendez, M. A. A. King's College London	maria.mendez@kcl.ac.uk	108.151, 126.041
McKechanie, A. G. University of Edinburgh, The Patrick Wild Centre, University of Edinburgh	andrew.mckechanie@ed.ac.uk	108.148	Mendez, R. Georgetown University		113.010
McKenzie, K. University of Edinburgh	Karen.McKenzie@ed.ac.uk	107.119, 107.120, 107.121	Menna, E. University of Milano	E.Menna@in.cnr.it	135.003
McKenzie, R. Plymouth University	rebecca.mckenzie@plymouth.ac.uk	141.084	Menon, R. University of Texas Medical Branch	ram.menon@utmb.edu	127.078
McKown, C. Rush University Medical Center	Clark_A_McKown@rush.edu	117.155	Menon, V. Stanford University	menon@stanford.edu	108.127, 115.069, 149.004
McLaughlin, E. Newcastle University	eleanor.barry@hotmail.co.uk	130.149	Mercati, O. Institut Pasteur CNRS URA 2182	oriane.mercati@pasteur.fr	127.070
McLean, R. Brown University	rebecca_mclean@brown.edu	110.002	Mercier, E. CNRS USR 3246, Centre Emotion, La Salpêtrière hospital	emeline.mercier@etu.parisdescartes.fr	108.174
McLoughlin, G. Institute of Psychiatry, King's College London	grainne.mcloughlin@kcl.ac.uk	161.088	Mercure, E. Birkbeck, University of London	e.Mercure@bbk.ac.uk	136.010
			Mercuri, E. Child and Adolescent Neuropsychiatry Unit, Catholic University at Gemelli Hospital	eumercuri@gmail.com	127.096

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Meshorer, E. The Hebrew University of Jerusalem	meshorer@huji.ac.il	127.060	Minier, M. Unity Health Care, Inc	mminier@unityhealthcare.org	113.010
Messier, S. R. Boston University	srb829@bu.edu	117.121	Minio-Paluello, I. Sapienza Università di Roma, Fondazione Santa Lucia	ilaria.miniopaluello@gmail.com	160.029
Meunier, S. University Pierre et Marie Curie, ICM-Pitié-Salpêtrière Hospital	sabine.meunier@upmc.fr	108.139	Minjarez, M. B. Seattle Children's Hospital	mendy.minjarez@seattlechildrens.org	157.007
Mevel, K. Karolinska Institutet	katell.mevel@ki.se	115.043	Minshev, N. J. University of Pittsburgh	minshewn@upmc.edu	108.176, 117.135, 129.132, 144.171, 161.087
Meyer, A. T. T. University of North Carolina	allison.meyer@unc.edu	107.112, 160.011	Minter, B. Marcus Autism Center-Children's Healthcare of Atlanta	Bonnie.minter@choa.edu	106.036
Meyer, B. F. King Faisal Specialist Hospital and Research Center	brian_meyer@kfshrc.edu.sa	127.075	Minzenberg, M. J. UC Davis	michael.minzenberg@ucdmc.ucdavis.edu	108.171
Meyer, J. University of Trier	meyerjo@uni-trier.de	127.073	Mira Coelho, A. Pediatric/Psychiatric Department Hospital S.Joao	alda.mira.coelho@hotmail.com	158.005
Michaelson, J. J. University of California San Diego	jmichaelson@ucsd.edu	155.006	Miranda, M. C. Hospital General Universitario Gregorio Marañon	mconchi82@yahoo.es	136.014
Michel, T. M. Department of Psychiatry and Psychotherapy, Rostock University Hospital, Faculty of Medicine, University of Rostock	michelta@med.uni-rostock.de	106.050	Mirapeix, I. Principe de Asturias University Hospital	isabelmirapeix@gmail.com	141.066
Michelon, C. Autism Resources Center, CHRU Montpellier and Laboratory Epsilon	c-michelon@chu-montpellier.fr	164.147	Mirenda, P. University of British Columbia	pat.mirenda@ubc.ca	102.007, 110.001, 112.003, 121.008
Michetti, C. Istituto Superiore di Sanità	Caterinamichetti@hotmail.com	105.027	Mishaal, R. A. The Autism Center, Assaf Harofeh Medical Center	rmishaal@gmail.com	106.062
Miekkka, C. University of Texas Medical School, Rice University	cara.miekkka@gmail.com	161.065	Misra, M. Massachusetts General Hospital/ Harvard Medical School	mmisra@partners.org	142.107
Milen, M. University of Calgary	mtmilen@ucalgary.ca	116.087	Missaoui, S. University of Monastir	missaouisonia@yahoo.fr	137.026
Miles, J. H. Thompson Center at the University of Missouri	milesjh@missouri.edu	117.110, 142.089	Mitchell, A. La Trobe University	aa2mitchell@students.latrobe.edu	107.099
Milham, M. P. Center for Developing Brain at Child Mind Institute	milham01@med.nyu.edu	149.002, 156.007	Mitchell, G. L. Private consulting practice	LMitchell@optometry.osu.edu	162.117
Millea, M. Nielsen NeuroFocus	margaret.millea@gmail.com	116.107	Mitchell, P. University of Nottingham Malaysia Campus	peter.mitchell@nottingham.edu.my	135.007
Miller, F. K. Boston Children's Hospital	millerfk@umich.edu	107.110, 127.071, 155.007	Mitchell, S. K. Yale University	suzanna.mitchell@yale.edu	108.133, 115.063, 156.006
Miller, J. A. The University of California, Los Angeles	jeremymiller@ucla.edu	120.006	Mitchell, T. University of Massachusetts Medical School Shriver Center	teresa.mitchell@umassmed.edu	141.087
Miller, J. Center for Autism Research	millerj3@email.chop.edu	107.081, 116.078	Mitchell, W. University of Alberta	Wendy.mitchell@ualberta.ca	160.016
Miller, K. University of Oxford	karla.miller@ndcn.ox.ac.uk	115.059	Mochizuki, N. Hamamatsu University School of Medicine	naoto.soul.517@gmail.com	113.022, 132.007
Miller, S. University of North Carolina at Chapel Hill	Stephanie.Miller@CIDD.UNC.EDU	108.130	Moffat, A. K. K. Flinders University	anna.moffat@flinders.edu.au	130.140
Millonig, J. H. Robert Wood Johnson Medical School, CABM	Millonig@CABM.rutgers.edu	105.016	Mohapatra, A. The INCLIN Trust International	archisman@inclintrust.org	107.124, 107.125, 111.002, 158.004
Mills, A. Cold Spring Harbor Laboratory	mills@cshl.edu	133.003	Moilanen, I. K. Sr. University of Oulu	irma.moilanen@oulu.fi	161.093, 162.114
Milne, E. The University of Sheffield	E.Milne@sheffield.ac.uk	160.018	Molholm, S. The Sheryl and Daniel R. Tishman Cognitive Neurophysiology Laboratory, Albert Einstein College of Medicine	sophie.molholm@einstein.yu.edu	122.004, 123.012
Min, J. W. Kyung Hee University Medical Center	rejoice0204@naver.com	130.143	Møller, A. Center of Functionally Integrative Neuroscience, Aarhus University, PET-Centre, Aarhus University Hospital	arne@cfni.dk	105.005
Minderaa, R. B. University of Groningen and University Medical Center Groningen	r.b.minderaa@accare.nl	111.003	Molloy, C. A. Harrison Community Network	camolloy@fuse.net	103.004
Mineau, S. Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)	smineau@sympatico.ca	160.048	Molloy, E. Washington University in St. Louis	etmolloy@go.wustl.edu	106.037
Ming, X. UMDNJ-New Jersey Medical School	mingxu@umdnj.edu	135.006	Molteni, P. P. M. Università Cattolica del Sacro Cuore	paola.molteni@unicatt.it	116.103
			Mombereau, C. Institut du Fer a Moulin	cedric.mombereau@inserm.fr	105.010

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Monderer-Rothkoff, G. The Hebrew University of Jerusalem	galyam@cc.huji.ac.il	127.060	Morris, R. Georgia State University	robinmorris@gsu.edu	142.093
Monies, D. King Faisal Specialist Hospital and Research Center	DMonies@kfshrc.edu.sa	127.075	Morrison, D. R. Azusa Pacific University	drmorrison@apu.edu	161.090
Monopoli, B. Autism Research and Treatment Center	bruna.monopoli@unabreccianelmuro.it	143.120	Morrow, E. M. Brown University	eric_morrow@brown.edu	110.002
Monroe, J. F. Children's Hospital of Philadelphia	jfmonroe@gmail.com	123.016	Mortensen, E. L. Institute of Public Health and Center for Healthy Aging, University of Copenhagen	elme@sund.ku.dk	106.050
Montague, R. Seattle Children's Research Institute	rachel.montague@seattlechildrens.org	125.037, 130.145	Mosconi, M. W. University of Texas Southwestern Medical Center	Matt.Mosconi@UTSouthwestern.edu	147.001
Montgomery, J. M. University of Manitoba	montgom0@cc.umanitoba.ca	117.146, 130.137, 130.151	Moseley, R. L. L. MRC Cognition and Brain Sciences Unit, MRC Cognition and Brain Sciences Unit	rachel.moseley@mrc-cbu.cam.ac.uk	108.129
Montiel-Nava, C. La Universidad del Zulia	ceciliamontiel@gmail.com	106.034, 154.007	Moss, P. University College London	philippa.moss.11@ucl.ac.uk	161.085
Moody, E. University of Colorado, Denver	eric.moody@ucdenver.edu	104.008, 130.152	Mostofsky, S. H. Kennedy Krieger Institute, Johns Hopkins School of Medicine	mostofsky@kennedykrieger.org	108.170
Moorhead, T. W. J. University of Edinburgh	Bill.Moorhead@ed.ac.uk	108.148	Mostofsky, S. H. Kennedy Krieger Institute	mostofsky@kennedykrieger.org	123.010
Moran, J. E. Henry Ford Hospital	moranhfh@gmail.com	108.164	Mottes, E. University of Pisa-Stella Maris Scientific Institute	emotte@inpe.unipi.it	107.114, 107.122
Moran, M. E. Nisonger Center	marymoran.24@gmail.com	117.112	Mottron, L. Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)	mottronl@istar.ca	108.160, 126.040, 126.051, 126.055, 129.124, 141.088, 144.137, 144.147, 160.048, 164.168
Moreira, D. P. University São Paulo, Biosciences Institute	daniellepmoreira@gmail.com	127.093	Mouga, S. Hospital Pediátrico Carmona da Mota (HP) – Centro Hospitalar e Universitário de Coimbra (CHUC), Faculdade de Medicina-Universidade de Coimbra	susana.mouga@fmed.uc.pt	140.041, 154.006, 160.042, 162.104
Moreno, C. Hospital General Universitario Gregorio Marañón. Instituto de Investigación Sanitaria Gregorio Marañón. IISGM. CIBERSAM, Child and Adolescent Psychiatry Department, Spain	cmoreno@hggm.es	116.104, 128.114	Mountford, H. Bruce Lefroy Centre for Genetic Health Research, MCRI	hayley.mountford@mcri.edu.au	160.027
Moreno De Luca, A. Geisinger Health System, Bucknell University	amorenodeluca@geisinger.edu	127.061	Movahedi, A. University of Isfahan	armovahedi@yahoo.com	164.177
Morgan, B. Hospital for Sick Children	ben.morgan@sickkids.ca	108.154	Moy, S. S. University of North Carolina School of Medicine	sheryl_moy@med.unc.edu	105.021
Morgan, H. Autism Cymru	hugh@autismcymru.org	116.106	Mucchetti, C. University of California Los Angeles	cmucchetti@gmail.com	102.002, 112.004
Morgan, L. Florida State University Autism Institute	lindee.morgan@med.fsu.edu	157.005	Muench, K. L. L. Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine	kristin.muench@emory.edu	117.109, 117.120
Mori, N. Hamamatsu University School of Medicine	morin@hama-med.ac.jp	159.009	Muhle, R. A. Yale University School of Medicine	rebecca.muhle@yale.edu	150.002
Morin, D. Université du Québec à Montréal	morin.diane@uqam.ca	113.023	Mukaddes, N. M. Istanbul University, Istanbul Faculty of Medicine	nmotavalli@yahoo.com	160.035
Morini, M. Istituto Italiano di Tecnologia	monica.morini@iit.it	105.027	Mukerji, C. E. Yale Child Study Center	cora.mukerji@yale.edu	122.008, 123.001, 136.009, 136.012, 136.018, 136.022
Moriuchi, J. M. Emory University, Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine	jennifer.moriuchi@emory.edu	167.001, 168.001	Mukherjee, P. UCSF	pratik.mukherjee@radiology.ucsf.edu	115.045, 129.128
Moriwaki, A. National Center of Neurology and Psychiatry, Japan, National Institute of Mental Health	amoriwaki@ncnp.go.jp	123.017	Muller, C. L. Vanderbilt University	christopher.l.muller@Vanderbilt.Edu	147.003
Moro, F. Stella Maris Scientific Institute	fmoro@inpe.unipi.it	142.102	Müller, R. A. San Diego State University	amueller@sciences.sdsu.edu	115.064
Morón, G. Child and Adolescent Psychiatry Department, Hospital General Universitario Gregorio Marañón. Instituto de Investigación Sanitaria Gregorio Marañón, IISGM, CIBERSAM	goretti.moron@iisgm.com	141.066	Müller-Pinzler, L. Philipps-University Marburg	lamuelle@med.uni-marburg.de	108.134
Morris, C. University of Exeter	chris.morris@pms.ac.uk	166.001	Mundy, P. C. University of California at Davis	pcmundy@ucdavis.edu	117.138, 144.161, 154.003, 164.166
Morris, J. P. University of Virginia	jpmorris@virginia.edu	108.140	Munson, J. University of Washington	jeffmun@uw.edu	155.008
Morris, M. L. University of Alabama at Birmingham	mlmorris@uab.edu	108.161	Muntoni, F. The Dubowitz Neuromuscular Centre UCL, Institute of Child Health	f.muntoni@ucl.ac.uk	127.096

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Muratori, F. University of Pisa-Stella Maris Scientific Institute	filippo.muratori@inpe.unipi.it	106.071, 107.114, 107.118, 107.122, 124.025, 128.112, 142.102, 151.004, 156.005	Nakajima, S. Hamamatsu University School of Medicine	hi-fly@rouge.plala.or.jp	113.022, 132.007
Murdaugh, D. L. University of Alabama at Birmingham	lildm29@uab.edu	108.161	Nakamura, A. National Center Forgeriatrics and Gerontology	nakamura@ncgg.go.jp	141.046
Murin, M. Great Ormond Street Hospital for Children NHS Foundation Trust	mariana_murin@hotmail.com	112.008, 113.004, 116.083, 130.146, 130.148, 164.151	Nakamura, K. Hamamatsu University School of Medicine	nakamura@hama-med.ac.jp	159.009
Murphy, C. M. King's College London, Institute of Psychiatry	clodagh.m.murphy@kcl.ac.uk	107.109, 108.146, 108.149, 156.001	Nakatani, J. Institute for Human Genetics, UCSF	jln.nakatani@gmail.com	105.019
Murphy, D. G. Institute of Psychiatry, King's College London	declan.murphy@kcl.ac.uk	107.087, 107.109, 108.146, 108.149, 108.151, 108.175, 126.041, 132.003, 156.001	Nakayama, Y. Tokyo Metropolitan Children's Medical Center	yoshiko_nakayama@tmhp.jp	107.107
Murphy, E. R. Georgetown University	erm8@georgetown.edu	114.040	Naples, A. Yale Child Study Center	adam.naples@yale.edu	122.008, 123.001, 123.003, 136.012, 136.018, 136.022
Murphy, I. Y. Yale University	isabella.murphy@yale.edu	115.063, 156.006	Napolitano, C. Paediatric Hospital Bambino Gesù in Rome	napolitanocarmen@yahoo.it	143.114
Murphy, N. P. University of California at Los Angeles	nmurphy@ucla.edu	133.005	Narcisa, V. Acadia University		107.086
Murray, A. University of Edinburgh	ajalouisemurray@gmail.com	107.119, 107.120	Narzisi, A. University of Pisa-Stella Maris Scientific Institute	antonio.narzisi@inpe.unipi.it	106.071, 107.114, 107.118, 107.122, 124.025, 128.112, 151.004
Muskat, B. The Hospital for Sick Children	barbara.muskat@sickkids.ca	116.082, 142.097	Nash, R. P. University of North Carolina at Chapel Hill	rebekah_potts@med.unc.edu	142.106
Mussey, J. University of Alabama	jlmussey@crimson.ua.edu	144.157	Navab, A. University of California, Santa Barbara, Koegel Autism Center	anavab@education.ucsb.edu	124.035
Muuvila, M. S. Child Psychiatry Unit, Tampere University Hospital	mari.muuvila@gmail.com	143.134	Navarro, I. University of Valencia	inavarro@autismo.uv.es	128.115
Myers, E. University of Washington	emily.myers@seattlechildrens.org	107.079	Navarro-Torres, C. A. University of Connecticut	christian.navarro-torres@uconn.edu	164.155
Myers, J. F. Bristol University	Jim.Myers@bristol.ac.uk	108.151	Nave, K. Max-Planck-Society; Max-Planck-Institute for Experimental Medicine; Dpt. Neurogenetics	nave@em.mpg.de	127.066
Myers, S. M. Geisinger Health System, Bucknell University	smyers1@geisinger.edu	127.061	Neal-Beevers, A. R. University of Texas at Austin	neal@psy.utexas.edu	117.170, 160.044
N			Nebel, M. B. Kennedy Krieger Institute, Johns Hopkins School of Medicine	mb@jhmi.edu	108.170
Nadel, J. Sr. CNRS USR 3246, Centre Emotion, La Salpêtrière Hospital	jacqueline.nadel@upmc.fr	108.174, 144.151, 168.008	Neece, C. Loma Linda University	cneeca@gmail.com	161.070
Nader, A. M. University of Quebec in Montreal	anne_nader@hotmail.com	160.033	Neeley, E. S. Brigham Young University	sneeley@stat.byu.edu	112.001
Nadig, A. McGill University	aparna.nadig@mcgill.ca	116.086, 116.090	Nehorai, A. Washington University	nehorai@ese.wustl.edu	127.062
Nagarajan, S. University of California, San Francisco	srikantan.nagarajan@radiology.ucsf.edu	108.156	Nelson, C. A. III Boston Children's Hospital, Harvard Medical School	charles.nelson@childrens.harvard.edu	108.135, 117.172, 136.011, 136.013, 136.017, 158.003, 163.143
Nah, Y. H. Flinders University	yonghwee.nah@flinders.edu.au	107.113	Nelson, R. M. University of Rochester	rmn9ba@virginia.edu	123.018, 126.047
Nahmias, A. S. S. University of Pennsylvania	asn2@sas.upenn.edu	110.008	Nelson, T. Harvard Medical School	tristan_nelson@hms.harvard.edu	127.090
Naidu, P. R.	drprnaidu@hotmail.com	115.047	Neri, G. Università Cattolica del Sacro Cuore, Istituto di Genetica Medica	gneri@rm.unicatt.it	153.004
Naigles, L. University of Connecticut	letitia.naigles@uconn.edu	112.002, 128.110, 156.004, 160.019, 160.034, 164.155, 166.002	Nester, M. King Faisal Specialist Hospital and Research Center	nester@kfshrc.edu.sa	127.075
Naim, E. King Faisal Specialist Hospital and Research Center	enaim@kfshrc.edu.sa	127.075	Nestle, J. Kennedy Krieger Institute	nestle@kennedykrieger.org	167.007
Nair, A. SDSU/UCSD Joint Doctoral Program in Clinical Psychology	anair@ucsd.edu	115.064	Neubauer, D. Univ. Paediatric Hospital	david.neubauer@mf.uni-lj.si	106.051
Nair, M. Medical College	cdcmkc@gmail.com	107.124, 107.125, 111.002, 158.004	Neumeyer, A. M. Massachusetts General Hospital / Harvard Medical School	aneumeyer@partners.org	142.107
Nakahachi, T. National Center of Neurology and Psychiatry, Japan, National Institute of Mental Health	tnakahashi@ncnp.go.jp	123.017	NeuroDevNet ASD Imaging Group		115.070, 115.072, 115.075, 129.133,

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Neves, S. New Jersey Autism Study	nevecss@umdny.edu	160.021	Noens, I. University of Leuven (KU Leuven)	ilse.noens@ppw.kuleuven.be	103.006, 107.080, 117.116, 126.049, 137.025, 139.035, 141.070, 144.143, 160.028
Newman, L. Monash University	Louise.Newman@monash.edu.au	143.133	Nolin, S. New York State Institute for Basic Research in Developmental Disabilities	Sally.Nolin@opwdd.ny.gov	142.095
Newman, S. Compedia Ltd	newmans@compedia.net	128.102, 141.068	Nonneman, R. J. University of North Carolina School of Medicine	nonneman@unc.edu	105.021
Newman, T. M. M. The Center for Children with Special Needs	tnewman@autismct.com	130.178	Noonan, J. P. Yale University School of Medicine	james.noonan@yale.edu	150.001, 150.002, 150.003, 150.004
Newschaffer, C. J. Drexel University School of Public Health	cnewscha@drexel.edu	106.046, 132.002, 159.008	Norbury, C. Royal Holloway, University of London	courtenay.norbury@rhul.ac.uk	117.168, 144.167
Newsom, C. R. Vanderbilt University	cassandra.r.newsom@vanderbilt.edu	107.083, 107.096, 111.004, 117.124	Norcia, A. M. Stanford University	amnorcia@stanford.edu	123.007
Newton, A. University of Alberta	mnwton@ualberta.ca	116.108	Nordahl, C. W. University of California Davis Medical Center	crswu@ucdavis.edu	108.169, 127.079, 156.003
Newton, T. Brigham Young University	newton.tiffani@gmail.com	164.157	Nordahl Hansen, A. J. University of Oslo	a.j.n.hansen@ped.uio.no	139.036
Nguyen, T. Oregon Health & Science University, Oregon Health & Science University	nguythua@ohsu.edu	127.097	Nørgaard-Pedersen, B. Department of Clinical Biochemistry and Immunology, Statens Serum Institute	bnp@ssi.dk	106.050
Nguyen Williams, K. Rady Children's Outpatient Psychiatry, San Diego		116.100	Norona, A. UCLA Center for Autism Research and Treatment	anorona@mednet.ucla.edu	136.013
ni Chuileann, S. J. J. Trinity College Dublin	smurphy@carlowcollege.ie	144.174	Norr, M. Georgetown University	men36@georgetown.edu	114.040
Nicholas, B. Bangor University	b.nicholas@bangor.ac.uk	116.095	North, S. Pembina Trails School Division	snorth@live.ca	130.137
Nicholas, D. University of Calgary	nicholas@ucalgary.ca	116.082, 116.084, 116.085, 116.087, 116.088, 116.102, 116.108	Northrup, J. B. B. University of Pittsburgh	jbn12@pitt.edu	163.131
Nicholas, D. B. University of Calgary	nicholas@ucalgary.ca	132.008	Noterdaeme, M. Klinik für Kinder- und Jugendpsychiatrie und Psychotherapie	Noterdaeme.Michele@josefinum.de	113.001
Nicholas, J. S. Medical University of South Carolina	nicholjs@musc.edu	106.055, 162.109	Novack, P. Washington University in St. Louis	hpnovack@go.wustl.edu	137.029
Nichols, S. Ph.D ASPIRE Center for Learning and Development	drshananichols@gmail.com	164.153	Novotny, S. University of California, Davis	senovotny@ucdavis.edu	117.138, 117.175, 144.161
Nicholson, A. Vanderbilt University	amy.g.nicholson@vanderbilt.edu	107.096, 111.004	Nowicki, K. New York State Institute for Basic Research in Developmental Disabilities	Krzysztof.Nowicki@opwdd.ny.gov	114.039
Nickerson, D. A. University of Washington	debnick@u.washington.edu	155.008	NUR, H. B. Z. National University of Singapore	hani.zainal@nus.edu.sg	161.099
Nicolini, C. McMaster University	nicolc@mcmaster.ca	135.003	Nurmi, E. L. UCLA Semel Institute	enurmi@mednet.ucla.edu	167.005
Nielsen, J. A. University of Utah	jared.nielsen@hsc.utah.edu	115.046, 115.056, 115.073	Nuske, H. J. J. La Trobe University	hjnuske@students.latrobe.edu.au	168.006
Nielson, C. Brigham Young University	cateness.anne@gmail.com	141.043	Nutt, D. J. Imperial College London	d.nutt@imperial.ac.uk	108.151
Niendam, T. A. UC Davis, Psychiatry, Imaging Research Center	tniendam@ucdavis.edu	108.171	O		
Nietfeld, J. P. Vanderbilt University	jennifer.p.nietfeld@vanderbilt.edu	112.004, 130.176	O'Brien, K. A. The University of Queensland	k.obrien@psy.uq.edu.au	141.079
Nigg, J. Oregon Health & Science University	niggj@ohsu.edu	161.055, 167.006	O'Connell, L. Queen's University	6jjo1@queensu.ca	126.058
Nikolova, V. D. University of North Carolina School of Medicine	viktoriya_nikolova@med.unc.edu	105.021	O'Day, D. University of Washington	doday@u.washington.edu	155.008
Nishida, T. University of California, Davis	tknishida@gmail.com	144.173	O'Hanlon, E. Royal College of Surgeons in Ireland	erikohanlon@rcsi.ie	115.044, 115.049
Nissim-Rafinia, M. The Hebrew University of Jerusalem	malkar@cc.huji.ac.il	127.060	O'Hare, A. University of Edinburgh	A.O'Hare@ed.ac.uk	107.119, 107.120, 107.121, 162.122
Nitzken, M. University of Louisville	mjnitz02@louisville.edu	115.071	O'Kelley, S. E. University of Alabama at Birmingham	sokelley@uab.edu	108.161
Niu, W. Yale University School of Medicine	wei.niu@yale.edu	150.002	O'Loughlin, K. Yale University School of Medicine	kerry.oloughlin@yale.edu	134.001, 134.002,
Noble, H. Vanderbilt University	hylannoble@gmail.com	107.096, 111.004			
Noda, W. Hamamatsu University School of Medicine	watarunoda@gmail.com	113.022, 132.007			

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
O'Neill, M. J. J. University of Connecticut	michael.oneill@uconn.edu	127.074	Ordqvist, A. Linköping University	annor864@student.liu.se	117.142
O'Reilly, H. University of Cambridge	heo24@medschl.cam.ac.uk	128.102, 141.068	Orellana, D. I. I. Neurological Institute Foundation Carlo Besta	dorellana@yahoo.com	120.001
O'Roak, B. J. J. University of Washington	oroak@uw.edu	155.008	Orinstein, A. University of Connecticut	alyssa.orinstein@uconn.edu	156.004, 160.019, 160.034, 166.002
O'Rourke, L. King's College London	linda.o'rourke@kcl.ac.uk	107.109	Orlich, F. University of Washington	forlich@u.washington.edu	125.037, 130.145, 142.110
Oberwelling, E. University Hospital Aachen, Research Center Jülich	eoberwelling@ukaachen.de	108.142	Orr, P. T. Geisinger Health System, Bucknell University	ptorr@geisinger.edu	127.061
Oczak, S. York University	soczak@yorku.ca	108.131, 126.048	Osanai, H. Musashino Higashi Gakuen	osanai@musashino-higashi.org	141.049, 141.052
Odeh, J. Palestinian Happy Child Centre	jhodeh@gmail.com	113.009	Osredkar, J. Clinical Institute of Clinical Chemistry and Biochemistry	josko.osredkar@kclj.si	106.051
Odom, S. University of North Carolina	slodom@unc.edu	113.017, 113.018, 117.152, 124.019, 164.172	Ostfeld Etzion, S. Bar-Ilan University	sharon_os_et@yahoo.com	117.159
Oerlemans, A. M. Radboud University Medical Centre, Donders Institute for Brain, Cognition and Behavior, Karakter Child and Adolescent Psychiatry University Centre Nijmegen	A.Oerlemans@karakter.com	145.001, 145.003, 145.004	Oswald, T. University of California, Davis	toswald@uoregon.edu	144.161
Ogino, K. National Center of Neurology and Psychiatry, Japan, National Institute of Mental Health	k-ogino@ncnp.go.jp	123.017	Ota, M. University of Edinburgh	mits@ling.ed.ac.uk	117.148, 141.054
Oguro-Ando, A. UCLA	oguroasami@ucla.edu	120.006	Oti, R. Seattle Children's Research Institute	rosalind.oti@seattlechildrens.org	125.037, 130.145
Ohno, T. Showa University		136.021	Ott, M. T. T. Children's Hospital of Philadelphia	ottm@email.chop.edu	142.109
Ohta, H. Showa University		136.021	Otterud, B. University of Utah	bemo@genetics.utah.edu	127.069
Okubo, Y. Nippon Medical School	okubo-y@nms.ac.jp	162.126	Ouellette-Kuntz, H. Queen's University	helene.kuntz@queensu.ca	106.043, 106.048
Oliveira, B. Center for Biodiversity, Functional & Integrative Genomics, Instituto Nacional de Saúde Doutor Ricardo Jorge, Instituto Gulbenkian de Ciência	barbara.oliveira@insa.min-saude.pt	140.041	Ouhtit, A. Sultan Qaboos University	aouhtit@squ.edu.om	106.044, 116.098, 162.110
Oliveira, G. Faculdade de Medicina Universidade de Coimbra, Hospital Pediátrico Carmona d a Mota (HP)-Centro Hospitalar e Universitário de Coimbra (CHUC), Hospital Pediátrico Carmona da Mota (HP)-Centro Hospitalar e Universitário de Coimbra (CHUC)	guiomar@chc.min-saude.pt	140.041, 154.006, 160.042, 162.104	Ouimet, T. Montreal Children's Hospital Research Institute	ouimet.to@gmail.com	115.070, 115.072, 115.075, 129.133, 129.135
Ollington, N. D. University of Tasmania	Nadia.Ollington@utas.edu.au	117.157	Owen, J. P. University of California San Francisco	julia.owen@ucsf.edu	129.128
Olson, J. E. Boston Children's Hospital	jendreolson@mac.com	107.110, 127.071, 155.007	Owens, D. G. C. University of Edinburgh	David.Owens@ed.ac.uk	108.148
Onore, C. E. E. The M.I.N.D. Institute, University of California, Davis	ceonore@ucdavis.edu	105.006	Ozaki, N. Nagoya University Hospital	ozaki-n@med.nagoya-u.ac.jp	107.107
Ooi, Y. P. Institute of Mental Health, Duke-NUS Graduate Medical School, University of Basel	yoona_phaik_ooi@imh.com.sg	161.073	Ozonoff, S. UC Davis M.I.N.D. Institute	sally.ozonoff@ucdmc.ucdavis.edu	104.006, 119.003
Oono, I. P. P. Newcastle University	inalegwu.oono@ncl.ac.uk	143.113	Ozsivadjian, A. Guy's Hospital	ann.ozsivadjian@gstt.nhs.uk	161.057
Op de Beeck, H. P. University of Leuven	hans.opdebeeck@ppw.kuleuven.be	144.154	P		
Oram Cardy, J. Western University, Canada	joramcar@uwo.ca	123.008, 164.146	Pääbo, S. Max Planck Institute for Evolutionary Anthropology	mittag@eva.mpg.de	105.010
Oranje, B. Center for Neuropsychiatric Schizophrenia Research (CNSR) and Center for Clinical Intervention and Neuropsychiatric Schizophrenia Research (CINS), Copenhagen University Hospital, Psychiatric Center Glostrup	b.oranje@cnsr.dk	136.015	Pacia, C. University College Cork	cressidapacia@gmail.com	143.123
Orazem, J. University Paediatric Hospital	jasna.o@gmail.com	106.051	PACT Consortium, T. University of Manchester	pact@manchester.ac.uk	117.147
			Padillo, V. Hospital Sant Joan de Déu	vanesa_padillo@yahoo.es	127.091
			Paez-Gómez, J. A. Instituto de Biomedicina de Sevilla, Hospital Universitario Virgen del Rocío/CSIC/ Universidad de Sevilla. Departamento de Fisiología Médica y Biofísica	paezgozomez@us.es	105.011
			Pagan, C. Institut Pasteur	cecile.pagan@gmail.com	111.007
			Page, D. The Scripps Research Institute	paged@scripps.edu	105.007
			Pahnke, J. Department of Women's and Children's Health, Center for Neurodevelopmental Disorders at Karolinska Institutet	johan.pahnke@ki.se	130.147
			Pain, H. University of Edinburgh	helen@staffmail.ed.ac.uk	128.105, 162.122

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Palermo, S. Department of Psychology, University of Turin, Turin, Italy	sara.palermo@unito.it	115.052	Parladé, M. V. University of Pittsburgh	mparlade@umiami.edu	117.152, 117.177
Palmieri, M. J. J. The Center for Children with Special Needs	mpalmieri@autismct.com	130.170, 162.118	Parmer, M. Oregon Health & Science University	parmer@ohsu.edu	130.160
Pamiàs, M. Salut Mental Parc Taulí, Parc Taulí. Sabadell. Hospital Universitari-UAB Universitat Autònoma de Barcelona, Campus d'Excellència Internacional		141.066	Parner, E. University of Aarhus	parner@biostat.au.dk	106.074
Pan, X. UCL	s.pan@cs.ucl.ac.uk	141.044	Parr, J. Institute of Neuroscience, Newcastle University	Jeremy.Parr@ncl.ac.uk	106.047, 107.115, 130.162, 143.129, 166.001
Panasiti, M. S. University of Reading, Sapienza University of Rome	m.serenapanasiti@gmail.com	160.050	Pasco, G. Institute of Education	g.pasco@ioe.ac.uk	107.089, 134.008, 136.010
Pandey, J. Children's Hospital of Philadelphia	pandeyj@email.chop.edu	144.159, 160.045	Pasko, B. E. University of Colorado Denver, Anschutz Medical Campus	bryce.pasko@ucdenver.edu	108.132
Pang, E. W. Hospital for Sick Children, Research Institute, Hospital for Sick Children, University of Toronto	epang@sickkids.ca	108.136	Passos-Bueno, M. R. University São Paulo, Biosciences Institute	passosbueno@gmail.com	127.093
Pang, E. W. Hospital for Sick Children	epang@sickkids.ca	108.157	Patel, H. New Jersey Autism Study	pateljh@umdnj.edu	160.021
Pang, Z. Child Health Institute of New Jersey, Robert Wood Johnson Medical School	pangzh@umdnj.edu	105.016	Patel, P. K. HHMI/UCLA	pkpatel@mednet.ucla.edu	105.029
Papadopoulos, A. King's College London	Andrew.Papadopoulos@slam.nhs.uk	161.096	Patel, V. London School of Hygiene and Tropical Medicine	vikram.patel@lshtm.ac.uk	113.003
Papapetrou, D. Mount Sinai School of Medicine	danaepapapetrou@gmail.com	133.002	Paterson, S. The Children's Hospital of Philadelphia	patersons@email.chop.edu	134.006, 141.064, 160.045, 163.130
Paparella, T. UCLA	tpaparella@mednet.ucla.edu	161.076	Patisaul, H. North Carolina State University	hbpatisa@ncsu.edu	105.002
Papon, M. A. Inserm UMR930	marie-amelie.papon@univ-tours.fr	120.007	Patriquin, M. Virginia Tech	mpatriq@vt.edu	108.162
Papoutsi, C. University of Thessaly	hrpapout@uth.gr	130.165	Patterson, P. H. California Institute of Technology	php@caltech.edu	133.007
Pappu, K. HHMI/UCLA	kpappu@mednet.ucla.edu	105.029	Patterson, S. University of California, Los Angeles	syppatterson@ucla.edu	117.171, 124.030, 143.124
Parab, S. Richmond University Medical Center	sparab@rumcsi.org	163.142	Patti, G. J. Washington University	gjpatrick@wustl.edu	105.009
Paradiso de Sayu, R. R. University of Wisconsin - Madison	rrparadiso@wisc.edu	116.101	Paul, L. K. Caltech	lkpaul@hss.caltech.edu	166.007
Pardo, C. University of Valencia	cpardo@robotica.uv.es	128.115	Paulding, C. Biomarker Development, Novartis Institutes for Biomedical Research	charles.paulding@novartis.com	153.004
Parellada, M. Instituto de Investigación Sanitaria Gregorio Marañón, IISGM. Hospital General Universitario Gregorio Marañón, CIBERSAM, Madrid, SPAIN	parellada@hggm.es	115.054, 116.104, 127.006, 128.114, 136.014, 141.063, 141.066	Pauley, G. J. University of Washington	gpauley@u.washington.edu	115.050
Parikshak, N. UCLA	neelroop@gmail.com	155.004	Paulus, F. M. M. Philipps-University Marburg	paulusf@med.uni-marburg.de	108.134, 141.050
Parish-Morris, J. University of Pennsylvania	julia.parish.morris@gmail.com	141.064	Paus, M. University of Southern Denmark	mapau05@student.sdu.dk	161.064
Parisi, M. University of Cagliari	parisi@unica.it	117.117	Pavliv, O. University of Arkansas for Medical Sciences	pavivoleksandra@uams.edu	159.006
Park, E. University of North Carolina at Chapel Hill	ejin.park@gmail.com	142.106	Paynter, J. M. M. AEIOU Foundation	jessica.paynter@aeiou.org.au	113.025
Park, J. E. Seoul National University Bundang Hospital	bulls18@snu.ac.kr	140.039	Pearlson, G. Institute of Living, Hartford Hospital / Yale University	Gpearls@harthosp.org	115.068
Park, M. N. UCLA Semel Institute for Neuroscience & Human Behavior	mnpark@mednet.ucla.edu	154.004, 161.094	Pearson, A. University of Nottingham	lpxap@nottingham.ac.uk	168.003
Park, M.	mira@eulji.ac.kr	140.039	Pearson, D. A. A. University of Texas Medical School	Deborah.A.Pearson@uth.tmc.edu	104.005, 161.065
Park, S. Seoul National University Hospital	subin-21@hanmail.net	140.039	Pearson, J. University of Utah	joel.persopn@hsc.utah.edu	127.097
Parker, K. J. J. Stanford University School of Medicine	kjparker@stanford.edu	117.156	Pecero, M. L. Instituto de Biomedicina de Sevilla, Hospital Universitario Virgen del Rocio/CSIC/Universidad de Sevilla. Departamento de Fisiología Médica y Biofísica	mlpecero@us.es	105.011
			Pecorelli, A. University of Siena	pecorelli@unisi.it	135.002
			Pedersen, C. A. University of North Carolina School of Medicine	Cort_Pedersen@med.unc.edu	105.021, 167.008

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Peel, A. Durham University	anna.peel@durham.ac.uk	141.061	Pessah, I. N. UC Davis M.I.N.D. Institute	inpessah@ucdavis.edu	104.006, 107.082, 119.003
Pei, F. Stanford University	fpei@stanford.edu	123.007	Pessiglione, M. INSERM, Institut du Cerveau et de la Moelle, Université Pierre et Marie Curie	mathias.pessiglione@gmail.com	141.088
Peiker, I. A. University Medical Center Hamburg-Eppendorf	ipeiker@uke.de	123.009	Peterson, C. C. The University of Queensland	candi@psy.uq.edu.au	141.079
Pekar, J. J. Kennedy Krieger Institute, Johns Hopkins School of Medicine	pekar@jh.u.edu	108.170	Petkova, E. NYU Child Study Center	petkoe01@nyumc.org	107.097
Pellegrino, R. Children's Hospital of Philadelphia	renata.pellegrino@gmail.com	127.069	Petrou, A. M. Heriot-Watt University	amp12@hw.ac.uk	117.148, 162.122
Pellicano, E. Centre for Research in Autism & Education	l.pellicano@ioe.ac.uk	116.096, 126.045, 141.071	Phan, H. T. T. NYS Institute for Basic Research in Developmental Disabilities	hattphan@gmail.com	163.142
Pelphrey, K. A. Yale University	kevin.pelphrey@yale.edu	108.133, 108.155, 108.166, 115.063, 129.129, 156.002, 156.006	Phelps, I. J. University of Washington	igphelps@u.washington.edu	155.008
Pena, J. La Universidad del Zulia	juaco949@hotmail.com	154.007	Phillips, J. University of Texas Medical School	Jennifer.I.Phillips@uth.tmc.edu	149.004, 157.007, 161.065
Penagarikano, O. University of California at Los Angeles	openaga@ucla.edu	120.006, 133.005	Phillips, K. Center for Disease Control	cou5@cdc.gov	106.053
Pensosi, V. Fundación Orange	veronica.pensosi@orange.com	128.114	Phung, D. Q. Q. Deakin University	dinh.phung@deakin.edu.au	128.117
Pepler, D. York University	pepler@yorku.ca	164.152	Piana, S. University of Genova	steto84@gmail.com	128.102
Peppe, S. Queen Margaret University	sue.peppe@gmail.com	117.148, 141.054	Picard, R. W. Massachusetts Institute of Technology	picard@media.mit.edu	128.106, 128.111
Peran, L. Catalonian Asperger's Association	cta.maresme@gmail.com	117.115	Pickett, J. Autism Speaks	jane_pickett@autismspeaks.org	114.034, 160.038
Pereira, J. M. University of Coimbra	joao.msperreira@gmail.com	162.104	Pickles, A. University of Manchester	Andrew.Pickles@manchester.ac.uk	136.010, 161.054, 161.095, 163.132
Perez, E. University of Houston College of Education, University of Texas Medical School	perez.evelyn1@gmail.com	161.065	Pilowsky Peleg, T. Tel Aviv Yaffo Academic College		143.116
Perez, I. Children's Hospital Los Angeles, University of Southern California	laPerez@chla.usc.edu	142.109	Pina-Camacho, L. Instituto de Investigación Sanitaria Gregorio Marañón, IiSGM. Hospital General Universitario Gregorio Marañón, CIBERSAM	lpina@iisgm.com	115.054
Pérez-Jurado, L. A. Universitat Pompeu Fabra, The Centre for Biomedical Network Research on Rare Diseases (CIBERER), Instituto de Investigación Sanitaria IMIM-Hospital del Mar	luis.perez@upf.edu	127.085, 159.010	Pinto-Martin, J. A. University of Pennsylvania School of Nursing	pinto@nursing.upenn.edu	132.001, 164.159
Pericak-Vance, M. A. A. University of Miami	mpericak@med.miami.edu	127.078, 127.082, 127.095	Pioggia, G. Institute of Clinical Physiology, National Research Council (CNR)	giovanni.pioggia@cnr.it	103.005, 106.071, 128.112, 151.004
Perminova, G. A. Moscow State University of Psychology and Education (MSUPE)	permi@mail.ru	144.165	Pina-Camacho, L. Instituto de Investigación Sanitaria Gregorio Marañón, IiSGM. Hospital General Universitario Gregorio Marañón, CIBERSAM	lpina@iisgm.com	115.054, 127.066
Permuy, B. University of Santiago	beatriz.permuy@usc.es	141.059	Piras, A. P. Boston University School of Medicine	apiras@bu.edu	114.035
Perreault, A. Perceptual Neuroscience Laboratory for Autism and Development (PNLab), Centre de Recherche en Neuropsychologie et Cognition (CERNEC), Université de Montréal	perreault.audrey@gmail.com	126.040	Piras, F. Azienda Ospedaliera Brotzu	fra.piras@iibero.it	123.002
Perrin, J. CHU de Toulouse	perrin.j@chu-toulouse.fr	126.052, 128.118	Plaistead Grant, K. University of Cambridge	kate@cambridgelara.ac.uk	117.178
Perry, L. M. Stanford University	lmperry@stanford.edu	156.003	Platten-Brown, L. UCL Institute for Women's Health	l.platten-brown@ucl.ac.uk	107.093
Persico, A. M. University Campus Bio-Medico, IRCCS	a.persico@unicampus.it	106.059, 110.006, 142.092	Plavnick, J. B. B. Michigan State University	plavnick@msu.edu	124.034, 162.124
Persing, J. A. Yale University School of Medicine	john.persing@yale.edu	136.009	Plebst, C. PANAACEA	cplebst@gmail.com	106.063
Perszyk, D. Yale Child Study Center	danielle.perszyk@yale.edu	136.009, 136.022	Plesa Skwerer, D. Boston University	dplesas@bu.edu	117.121, 144.136
Pescosolido, M. F. Brown University	mpescosolido@wihri.org	110.002	Plummer, M. Rutgers University	mplummer@biology.rutgers.edu	105.016
			Podolin, S. R. PharmaNet-i3	spodolin@pharmanet-i3.com	107.110
			Pogribny, I. P. National Center for Toxicological Research	igor.pogribny@hss.fda.gov	159.006
			Pohl, A. University Hospital Aachen	anpohl@ukaachen.de	108.142

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Pojman, N. UCSF	pojmann@neuropeds.ucsf.edu	115.045	Prévost, P. Université François Rabelais, INSERM U930	philippe.prevest@univ-tours.fr	117.153
Politi, P. University of Pavia	piertuigi.politi@unipv.it	107.117	Prigge, M. University of Utah	m.dubray.prigge@gmail.com	112.001, 115.046, 115.062, 115.073, 164.162
Poljac, E. Radboud University Nijmegen	e.poljac@donders.ru.nl	144.150	Prince, E. Yale University School of Medicine	emily.prince@yale.edu	138.031
Polo-Kantola, P. Turku University Hospital, University of Turku	paivi.polo@tyks.fi	106.056	Pringle, B. National Institute of Mental Health	bpringle@mail.nih.gov	106.067
Ponde, M. P. P. BAHIANA School of Medicine and Public Health	milenaponde@bahiana.edu.br	161.097	Prins, J. Radboud University Nijmegen Medical Centre	j.prins@mps.umcn.nl	144.144
Poole, R. Seattle Children's Research Institute	Renee.poole@seattlechildrens.org	125.037, 130.145	Prior, M. Melbourne School of Psychological Sciences	priorm@unimelb.edu.au	161.084
Poon, K. National Institute of Education	kenneth.poon@nie.edu.sg	161.067, 161.099	Prosperi, M. University of Pisa – Stella Maris Scientific Institute	mprosperi@inpe.unipi.it	107.118
Popa, T. University Pierre et Marie Curie, ICM - Pitié-Salpêtrière Hospital	traian.popa@upmc.fr	108.139	Proud, M. Baylor College of Medicine	mbproud@bcm.edu	142.100
Porayska-Pomsta, K. London Knowledge Lab	k.porayska-pomsta@ioe.ac.uk	130.157	Proulx, C. SynapDx Corp	cproulx@synapdx.com	107.082
Porche, K. Boston Children's Hospital	ken.porche@childrens.harvard.edu	121.001, 127.071, 155.007, 161.100	Prud'hommeaux, E. T. Oregon Health & Science University	emilytucker@gmail.com	117.118, 130.160, 139.034
Port, R. G. The Children's Hospital of Philadelphia	russgport@gmail.com	129.126	Puente, X. S. University of Oviedo-IUOPA	xspuente@uniovi.es	127.091
Portenier, D. C. Barber National Institute	danportenier@barberinstitute.org	128.104	Puig Navarro, O. Hospital Clinic of Barcelona, CIBERSAM	opuig@clinic.ub.es	115.055, 117.115, 141.077, 144.140
Porter, F. D. National Institute of Child Health and Human Development	fdporter@mail.nih.gov	115.053, 129.130	Puleo, C. M. Temple University	tua89288@temple.edu	142.105
Posada, M. Carlos III National Institute of Health	mposada@isciii.es	104.007	Pulverman, R. Delaware State University	RPulverman@desu.edu	141.064
Potts, A. The Johnson Center for Child Health and Development	apotts@johnson-center.org	107.078	Pulvermüller, F. MRC Cognition and Brain Sciences Unit, Free University	friedemann.pulvermuller@mrc-cbu.cam.ac.uk	108.129
Poulin-Lord, M. P. Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)	mpierplord@hotmail.com	108.160	Pusceddu, P. Azienda Ospedaliera Brotzu	pierpaolopusceddu@aob.it	123.002
Pourre, F. CHU de Toulouse	pourre.f@chu-toulouse.fr	130.139, 130.175	Puts, N. A. The Johns Hopkins University, Kennedy Krieger Institute	nickputs@gmail.com	123.010
Pousa, E. Salut Mental Parc Taulí, Parc Taulí. Sabadell. Hospital Universitari-UAB Universitat Autònoma de Barcelona	EPousa@tauli.cat	141.066	Puura, K. Tampere University Hospital	kaija.puura@uta.fi	140.040
Poustka, F. Goethe University	Poustka@em.uni-frankfurt.de	120.002	Puzzo, I. University of Reading	i.puzzo@reading.ac.uk	160.050
Poustka, L. Central Institute of Mental Health	Luise.Poustka@zi-mannheim.de	113.001	Pyles, B. University of California Davis	brpyles@gmail.com	105.028
Pouw, L. B. Leiden University	pouwlb@fsw.leidenuniv.nl	161.069, 161.083	Q		
Powell, C. Boston Children's Hospital	Christine.Powell@childrens.harvard.edu	161.100	Qasmieh, S. Children's Hospital of Philadelphia	qasmiehs@email.chop.edu	115.066, 123.016, 129.131
Powell, K. K. Children's National Medical Center	kelly.powell@yale.edu	130.141	Qi, C. University of New Mexico	hqj@unm.edu	162.125
Powell, P. S. S. University of North Carolina - Chapel Hill	patrickspowell@gmail.com	108.168, 160.011	Quigley, J. Trinity College Dublin	QUIGLEYJ@tcd.ie	163.127
Powers, M. D. D. Yale University	michaeldpowers@hotmail.com	130.178	Quinn, J. University of California San Francisco	Jeffrey.Quinn@ucsf.edu	159.008
Prabhakar, P. CHOP	prabhakar@email.chop.edu	115.066	Quinnies, K. M. University of Virginia	kq4n@virginia.edu	105.014
Prabhu, S. P. Children's Hospital, Boston	sanjay.prabhu@childrens.harvard.edu	136.013	Quint, N. Nova Southeastern University	quint@nova.edu	162.117
Prasad, H. C. Vanderbilt University	harish.prasad@Vanderbilt.Edu	147.004	Quintin, E. M. Stanford University	evemariequintin@gmail.com	141.043
Prasanna, S. McGill University	shreya.prasanna@mail.mcgill.ca	113.020, 116.093	R		
Prats, C. Unitat d'Antropologia, Facultat de Biologia	c.prats@ub.edu	127.066	Radik, I. Nova Southeastern University	id107@nova.edu	162.117
			Radley, K. C. C. III University of Southern Mississippi	keith.radley@usm.edu	130.154
			Ragland, J. D. UC Davis, Imaging Research Center	jdragland@ucdavis.edu	108.171

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Ragozzino, M. E. University of Illinois at Chicago	mrago@uic.edu	147.001, 147.002	Redoblado Hodge, A. The Children's Hospital at Westmead	antoinette.hodge@health.nsw.gov.au	130.144
Rahbar, M. H. H. The University of Texas Health Science Center at Houston, The University of Texas School of Public Health at Houston	Mohammad.H.Rahbar@uth.tmc.edu	104.005	Reed, G. University of Kansas Medical Center	greed@kumc.edu	162.105
Rai, D. University of Bristol, Karolinska Institutet	dheeraj.rai@bristol.ac.uk	104.004	Reeve, R. E. University of Virginia	rer5r@virginia.edu	116.081, 137.027, 161.072
Raja, M. Institute of Mental Health	malini_raja@imh.com.sg	161.073	Regehr, W. Harvard Medical School	wade_regehr@hms.harvard.edu	133.004
Rajan, K. B. Rush University Medical Center	kumar_rajan@rush.edu	130.153	Rehg, J. M. Georgia Institute of Technology	rehg@cc.gatech.edu	109.004
Rajendran, G. Heriot Watt University	t.rajendran@hw.ac.uk	130.157	Reichow, B. Yale University School of Medicine	brian.reichow@yale.edu	130.168
Rajsic, J. Queen's University	4jr29@queensu.ca	144.177	Reilly, S. Yale University School of Medicine	steven.reilly@yale.edu	150.002
Ramachandran, R. University of Calicut	lpxr1@psychology.nottingham.ac.uk	160.018	Reiss, A. L. Stanford University	reiss@stanford.edu	154.005
Ramanathan, A. University of Southern California	anitamaram@usc.edu	155.002	Remiker, A. M. University of Pennsylvania Perelman School of Medicine	aremiker@mail.med.upenn.edu	164.159
Ramesh, P. Newcastle Univeristy	padmini.ramesh@ncl.ac.uk	107.115	Remington, A. University of Oxford	a.remington@ucl.ac.uk	144.172
Ramirez, A. The Hope Foundation	aramirez@hopeproject.ie	106.031	Remirez de Ganuza, C. Autismo Burgos	conchiredega@hotmail.com	128.115
Ramocki, M. B. Baylor College of Medicine	mramocki@bcm.edu	142.100	Remmel, R. J. Marquette University	rheanna.remmel@marquette.edu	122.006, 130.142
Ramos, F. J. Department of Pediatrics, University of Zaragoza Medical School,	framos@unizar.es	153.004	Ren, J. UCL Institute of Child Health	juejing704@gmail.com	115.048
Ramsay, G. Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine	gordon.j.ramsay@emory.edu	117.109, 117.120, 163.137	Renno, P. A. A. University of California, Los Angeles	prenno@ucla.edu	161.066
Ramsden, C. Cardiff University	ramsdenc@gmail.com	116.106	Renno, P. UCLA		110.005
Rancourt, K. M. Dalhousie University	kate.rancourt@gmail.com	144.158	Rescorla, L. Bryn Mawr College	Rescorl@brynmawr.edu	163.130
Rankin, K. University of Illinois at Chicago	krankin@uic.edu	106.053	Retico, A. Istituto Nazionale di Fisica Nucleare; Sezione di Pisa	alessandra.retico@pi.infn.it	156.005
Rantus, J. A. University of Miami	jrantus@med.miami.edu	127.078	Reveles, A. Marquette University	alexandra.reveles@mu.edu	122.006, 130.142
Rao, P. Kennedy Krieger Institute	RaoP@kennedykrieger.org	107.098, 161.068	Reyes, N. M. Virginia Tech	reynados@vt.edu	110.007, 113.026, 116.099
Rao, U. NIMHANS		115.047	Reynolds, A. M. University of Colorado Denver	Ann.Reynolds@childrenscolorado.org	104.008, 142.104, 142.109, 159.008
Råstam, M. Child and Adolescent Psychiatry	Maria.Rastam@med.lu.se	161.098	Reynolds, S. Glenrose Rehabilitation Hospital	shawn.reynolds@albertahealthservices.ca	107.102
Rattaz, C. Autism Resources Center, CHRU Montpellier and Laboratory Epsilon	c-rattaz@chu-montpellier.fr	164.147	Reznicek, E. C. University of Missouri	ecrf48@mail.missouri.edu	105.017
Rattazzi, A. PANAACEA	arattazzi@arnet.com.ar	106.063	Reznick, J. S. University of North Carolina - Chapel Hill	reznick@email.unc.edu	106.041
Ratto, A. B. B. University of North Carolina-Chapel Hill	bassetta@email.unc.edu	106.041	Ribeiro, C. M. M. University Sao Paulo, Biosciences Institute	cintia_genetica@hotmail.com	127.093
Raynaud, J. P. CHU de Toulouse	raynaud.jph@chu-toulouse.fr	128.118, 130.139, 130.175	Ribeiro, H. Birkbeck, University of London	h.ribeiro@bbk.ac.uk	134.008, 163.145
Raynaud, M. Centre Hospitalier Regional Universitaire, Inserm UMR930	m.raynaud@chu-tours.fr	120.007	Riby, D. Newcastle University	deborah.riby@ncl.ac.uk	117.149
Raznahan, A. National Institute of Mental Health	raznahan@mail.nih.gov	115.060	Ricamato, M. Private practice	m.ricamato@comcast.net	162.117
Re, S. University of Pavia	simona.re@email.it	107.117	Riccadonna, S. Bruno Kessler Foundation FBK	riccadonna@fbk.eu	127.087
Reaven, J. Univ. of Colorado Denver-JFK Partners	Judy.Reaven@ucdenver.edu	130.152, 157.008	Ricceri, L. Istituto Superiore di Sanità	laurakk@imf.it	105.020, 105.025
Rebagliato, M. Center for Public Health Research	rebagliato_mar@gva.es	106.072	Ricci, L. Università Campus Bio-Medico	luc.ricci84@gmail.com	117.137
			Rice, C. E. National Center on Birth Defects and Developmental Disabilities	CQR8@cdc.gov	104.002, 104.008, 106.053, 106.060, 116.093
			Rice, R. H. H. Jr. St. John Fisher College	rice@sjfc.edu	128.113
			Rich, W. D. Campbell University College Pharmacy and Health Sciences	richw@campbell.edu	106.057

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Rich-Edwards, J. Brigham and Women's Hospital	jrwichedwards@bics.bwh.harvard.edu	106.065	Roberts, T. P. L. P. Children's Hospital of Philadelphia	robertstim@email.chop.edu	115.066, 123.016, 129.126, 129.131
Richard, A. E. Eastern Michigan University	annette.e.richard@gmail.com	108.164	Roberts, W. University of Toronto	wendy.roberts@sickkids.ca	102.007, 110.001, 111.008, 112.003, 116.082, 117.132, 121.008, 163.128
Richards, T. L. University of Washington	toddr@u.washington.edu	115.050	Robertson, B. Ministry of Children and Youth Services	bryon.robertson@ontario.ca	132.005
Richdale, A. L. Olga Tennis Autism Research Centre	a.richdale@latrobe.edu.au	130.150	Robertson, D. King's College London, Institute of Psychiatry	Dene.Robertson@slam.nhs.uk	107.109, 108.146, 108.149
Ricotti, V. The Dubowitz Neuromuscular Centre UCL, Institute of Child Health	v.ricotti@ucl.ac.uk	127.096	Robins, D. L. Georgia State University	drobins@gsu.edu	106.049, 107.106, 107.111, 107.116, 109.003, 111.006, 142.093, 154.008, 160.020
Riddick, N. V. University of North Carolina School of Medicine	natallia_riddick@med.unc.edu	105.021	Robinson, C. University of Colorado	cordelia.rosenberg@ucdenver.edu	160.030
Rider, D. RISC, ENS, CNRS	delphine.rider@risc.cnrs.fr	126.042	Robinson, E. Analytic and Translational Genetics Unit, Massachusetts General Hospital/Department of Medicine, Harvard School of Medicine	erobinso@hsph.harvard.edu	127.089
Ridding, M. C. The University of Adelaide	michael.ridding@adelaide.edu.au	130.140	Robinson, P. University of Cambridge	peter.robinson@cl.cam.ac.uk	128.102, 128.103
Rieffe, C. Leiden University	crieffe@fsw.leidenuniv.nl	141.085, 161.069, 161.083	Robles-Lanuza, E. Instituto de Biomedicina de Sevilla, Hospital Universitario Virgen del Rocío/CSIC Universidad de Sevilla. Departamento de Fisiología Médica y Biofísica	e.robles.lanuza@gmail.com	105.011
Rieger, M. A. A. Washington University	mrieger@go.wustl.edu	105.009	Robson, D. Flinders University of South Australia	danielle.robson11@gmail.com	107.108
Rigau, M. Universitat Pompeu Fabra	maria.rigau@gmail.com	127.085	Robustelli, B. National Institute of Mental Health	briana.robustelli@gmail.com	115.058, 161.089
Righi, G. Yale Child Study Center	grighi@gmail.com	136.012	Rocchetti, M. University of Pavia	rocchetti.matteo@gmail.com	107.117
Rigo, P. University of Trento	paola.rigo@unitn.it	117.150	Rocha, M. L. UC Davis M.I.N.D. Institute	marie.rocha@ucdmc.ucdavis.edu	143.126, 143.131, 157.004
Rijsdijk, F. SGDP, IoP, King's College London	f.rijdijk@iop.kcl.ac.uk	161.079	Rodena, J. Nova Southeastern University	jrodena@nova.edu	162.117
Riley, E. AEIOU Foundation	emma.riley@aeiou.org.au	113.025	Rodgers, J. Newcastle University	jacqui.rogers@ncl.ac.uk	117.149, 130.149, 130.162, 161.051, 161.075, 161.084, 164.157, 166.005
Rinehart, N. Monash University	Nicole.Rinehart@monash.edu	162.101	Rodrigues, A. Faculdade Motricidade Humana	amelo@fmh.utl.pt	107.106
Ring, M. City University London	melanie.ring.21@gmail.com	144.146, 144.155	Rodríguez-Bernal, C. L. Center for Public Health Research	rodriguez_claber@gva.es	106.072
Ring, S. M. University of Bristol	s.m.ring@Bristol.ac.uk	140.038	Rodríguez-Santiago, B. Quantitative Genomic Medicine Laboratories, S.L. (qGenomics)	benjamin.rodriguez@qgenomics.com	127.085, 159.010
Ringo, J. L. McGill University	jason.ringo@mail.mcgill.ca	144.162	Roeder, K. Carnegie Mellon University	roeder@stat.cmu.edu	150.001, 150.002, 150.003, 150.004
Rios, P. Harper House Children's Service	Patricia.Rios@hertspartsft.nhs.uk	117.169	Roeyers, H. Ghent University	Herbert.Roeyers@UGent.be	146.002, 160.041, 164.165
Risi, S. Eastern Michigan University	susan.alison.risi@gmail.com	107.075	Roge, B. University of Toulouse	roge@univ-tlse2.fr	127.067, 132.004
Rissman, E. University of Virginia School of Medicine	rissman@virginia.edu	105.001, 105.014	Rogers, C. Montreal Neurological Institute, McGill University	christine.rogers@mcgill.ca	128.119
Rivard, M. Université du Québec à Montréal	rivard.melina@uqam.ca	113.023	Rogers, S. J. M.I.N.D. Institute; University of California at Davis	sally.rogers@ucdmc.ucdavis.edu	108.169, 127.079, 143.126, 143.131, 151.003, 156.003, 157.004
Rivas, K. University of Southern California	baileigh05@yahoo.com	155.002	Rogier, O. Brain Mind Institute	ophelie.rogier@epfl.ch	123.011
Rivera, M. Vanderbilt University	mara.a.rivera@vanderbilt.edu	126.046	Rohrer, J. The Center for Children with Special Needs	jrohrer@autismct.com	130.178
Roark, B. Oregon Health & Science University, Oregon Health & Science University	roarkb@ohsu.edu	117.118	Rojas, D. C. University of Colorado Denver, Anschutz Medical Campus	don.rojas@ucdenver.edu	108.132, 122.002
Robb, S. The Neuromuscular Unit, Great Ormond Street Hospital	Stephanie.Robb@gosh.nhs.uk	127.096			
Roberts, A. L. Harvard School of Public Health	aroberts@hsph.harvard.edu	106.065, 119.001			
Roberts, A. S. S. Boston Higashi School	aroberts@bostonhigashi.org	130.158			
Roberts, J. Autism Centre of Excellence, Griffith University	jmaroberts@hotmail.com	130.144			
Roberts, M. Y. Vanderbilt University	megan.y.roberts@vanderbilt.edu	102.002, 124.032			
Roberts, N. University of Edinburgh	neil.roberts@ed.ac.uk	108.148			

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Roldán-Ceballos, O. Asociación Mexicana de Niños con TDA y trastornos asociados AC., Hospital General "Dr. Fernando Quiroz Gutiérrez"	ofeliaroldan@hotmail.com	106.068	Roth, I. A. A. The Open University	I.Roth@open.ac.uk	137.030
Rolison, M. Autism Science Foundation	max.rolison@yale.edu	136.012	Rotman, C. Compedia Ltd	chava@compedia.net	128.102
Rolle, C. University of California San Francisco	cammie@gazzaleyab.ucsf.edu	126.057	Roughan, L. Great Ormond Street Hospital	lauraroughan@hotmail.com	110.003, 130.148 163.138
Rollo, D. University of Parma	dolores.rollo@unipr.it	117.117	Rouhizadeh, M. Oregon Health & Science University	mrouhizadeh@gmail.com	117.118
Roman, V. Gedeon Richter Plc.	v.roman@richter.hu	105.026	Rouleau, G. A. Université de Montréal. CHUM Research Centre	guy.rouleau@umontreal.ca	127.066
Romarís, P. Hospital Mutua de Terrassa	patry77777@gmail.com	127.091	Roulet, J. B. Oregon Health & Science University	rouletj@ohsu.edu	106.035, 127.097, 142.103, 167.006
Rommel, N. KU Leuven	nathalie.rommel@med.kuleuven.be	126.049	Roux, S. UMR Inserm U930	sylvie.roux@univ-tours.fr	126.052
Rommelse, N. N. J. Radboud University Medical Centre, Donders Institute for Brain, Cognition and Behavior, Karakter Child and Adolescent Psychiatry University Centre Nijmegen	N.Lambregts-Rommelse@psy.umcn.nl	145.001, 145.003, 145.004	Rowley, A. M. M. Nova Southeastern University, University of Miami	ameliarowley@gmail.com	117.175, 143.127
Romo, J. Hospital General Universitario Gregorio Marañón. Instituto de Investigación Sanitaria Gregorio Marañón. IISGM. CIBERSAM, Child and Adolescent Psychiatry Department, Spain	jromovilla@telefonica.net	116.104, 128.114	Roy, D. K. Massachusetts Institute of Technology	dkroy@media.mit.edu	128.110
Ronald, A. Birkbeck College	a.ronald@bbk.ac.uk	107.087, 127.089	Rozenblit, L. Prometheus Research, LLC	leon@prometheusresearch.com	128.120, 128.121, 128.122
Roncadin, C. Peel Children's Centre	croncadin@peelcc.org	111.008, 163.128	Rozga, A. Georgia Institute of Technology	agata@gatech.edu	109.004
Roos, L. University of Manitoba	Leslie_Roos@cpe.umanitoba.ca	106.048	Rubia, K. King's College London, Institute of Psychiatry	k.rubia@iop.kcl.ac.uk	108.146
Ropar, D. University of Nottingham	dmr@psychology.nottingham.ac.uk	135.007, 141.067, 168.003	Ruble, L. A. Ph.D University of Kentucky	lisa.ruble@uky.edu	113.028
Ropers, H. H. Max Planck Institute for Molecular Genetics	ropers@molgen.mpg.de	120.007	Rudie, J. D. University of California, Los Angeles	rudie@ucla.edu	129.123
Rosa, M. J. Hospital Clinic of Barcelona	mirosa@clinic.ub.es	115.055, 141.077, 144.140	Ruigrok, A. N. University of Cambridge	ar560@medschl.cam.ac.uk	108.158
Rose, S. University of Arkansas for Medical Sciences	srose@uams.edu	120.003, 142.098	Runarsson, A. R. Johns Hopkins University	arunnar1@jhmi.edu	155.004, 159.007
Rosen, N. J. California Dept of Public Health, UC Berkeley SPH (current)	nrosencwh@gmail.com	106.060	Rush, R. Queen Margaret University	RRush@qmu.ac.uk	107.119, 107.120
Rosen-Sheadley, B. Brandeis University		107.086	Russo, J. S. S. Seattle Children's Hospital Autism Center	jason.russo@seattlechildrens.org	113.021
Rosenan, R. Bar-Ilan University	ruthie.r28@gmail.com	143.121	Russo, N. Syracuse university	nrusso@syr.edu	123.012
Rosenbaum, P. McMaster University	rosenbau@mcmaster.ca	127.088	Russo-Ponsaran, N. M. M. Rush University Medical Center	nicole_russo@rush.edu	117.155
Rosenberg, C. University Sao Paulo, Biosciences Institute	carlarosenberg@uol.com.br	127.093	Ruta, L. University of Cambridge	sarah.gillespie@cpft.nhs.uk	106.071, 151.004
Rosenberg, D. University of Illinois at Chicago	DROSE@uic.edu	106.053	Rutherford, M. Queen Margaret University, NHS Lothian	MRutherford@qmu.ac.uk	107.119, 107.120, 107.121
Rosenberg, S. University of Colorado	steven.rosenberg@ucdenver.edu	104.008	Rutishauser, U. California Institute of Technology	urut@caltech.edu	137.023
Rosenfeld, M. G. San Diego School of Medicine, UCSD	mrosenfeld@ucsd.edu	105.019	Ruysschaert, L. Ghent University	Lieselot.Ruysschaert@UGent.be	146.002
Rosenthal, M. Child Mind Institute	MRosenthal01@gmail.com	130.141, 144.159, 157.001, 160.019	Ruzzano, L. M. M. University of Amsterdam	LRuzzano@gmail.com	161.052
Ross, I. Huntington Memorial Hospital	ianrossmd@aol.com	137.023	Ryali, S. Stanford University	sryali@stanford.edu	108.127, 149.004
Ross, W. Einstein	rossw@einstein.edu	116.080	Ryan, K. L. University of Notre Dame	kryan14@nd.edu	130.172
Rosset, D. INCM, CNRS; Autism Resource Center	delphinerosset@yahoo.fr	144.169	S		
Rossi, C. C. C. University of Colorado Anschutz Medical Campus	cree.rossi@gmail.com	114.037	Saba, G. Azienda Ospedaliera Brotzu	sabages@gmail.com	117.164
			Sabbagh, M. A. Queen's University	sabbagh@queensu.ca	136.019
			Sabers, A. The Epilepsy Clinic, Department of Neurology, Rigshospitalet	a@sabers.dk	105.005
			Sacco, R. University Campus Bio-Medico, IRCCS "Fondazione Santa Lucia"	r.sacco@unicampus.it	106.059, 142.092
			Saffo, R. W. University of Alabama	rsaffo@as.ua.edu	124.028

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Sahin, M. Boston Children's Hospital	mustafa.sahin@childrens.harvard.edu	131.004, 133.004, 136.013	Sargent, K. N. Georgia State University	kaylansargent@gmail.com	142.093
Saini, J. NIMHANS		115.047	Sarkar, N. Vanderbilt University	nilanjan.sarkar@vanderbilt.edu	128.099
Saito, C. Obu Dementia Care Research and Training Center	c.saito.o-dcroc@dcnet.gr.jp	141.046	Sarrett, J. C. Emory University	jsarret@emory.edu	116.094
Saito, T. Nippon Medical School	tsaito@nms.ac.jp	162.126	Satterfield, D. Iowa State University	debrasatterfield@gmail.com	117.128, 117.145
Saitovitch, A. INSERM Unity 1000, Necker Hospital	a.saitovitch@gmail.com	108.139	Saulnier, C. A. A. Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine	celine.saulnier@emory.edu	138.033
Sakellari, M. EPSYPEA	marigosake@yahoo.gr	117.111	Saxe, R. MIT	saxe@mit.edu	108.155
Sala, C. CNR Institute of Neuroscience, Neurological Institute Foundation Carlo Besta	c.sala@in.cnr.it	120.001	Saxena, S. World Health Organization	saxenas@who.int	130.168
Saldaña Sage, D. Universidad de Sevilla		141.056	Saxena-Chandhok, T. The Com DEALL Trust	tanushree@mit.edu	128.109
Salisbury, A. L. The Warren Alpert Medical School of Brown University, Women & Infants Hospital	asalisbury@wihri.org	117.167	Scahill, L. Yale University School of Medicine	lawrence.scahill@yale.edu	167.005
Salomone, E. Institute of Education, University of London	e.salomone@ioe.ac.uk	113.001	Scandurra, V. Careggi University Hospital	v.scandurra@yahoo.it	117.151, 142.111
Salt, A. Great Ormond Street Hospital NHS Foundation Trust	alison.salt@gosh.nhs.uk	160.017	Scariati, E. University of Geneva Medical School	elisa.scariati@unige.ch	108.177
Samms-Vaughan, M. The University of the West Indies	msammsvaughan@gmail.com	104.005	Scarpa, A. Virginia Tech	ascarpa@vt.edu	110.007
Sample, H. Azusa Pacific University	hsample09@apu.edu	105.024	Scattoni, M. L. Istituto Superiore di Sanità	marialuisa.scattoni@iss.it	105.025, 105.027, 133.008
Samson, A. C. C. Stanford University	andrea.samson@stanford.edu	117.156	Scerif, G. University of Oxford	gaia.scerif@psy.ox.ac.uk	163.140
Samson, F. Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)	fabienne.samson@umontreal.ca	108.160	Schaaf, R. Thomas Jefferson University	roseann.schaaf@jefferson.edu	160.014, 162.113
Samson, Y. Pitié-Salpêtrière Hospital	yvessam@gmail.com	108.139	Schaer, M. University of Geneva Medical School	marie.schaer@unige.ch	108.177
San José, A. King's College London	antonia.sanjose@kcl.ac.uk	141.053	Schatschneider, C. Florida State University	schatschneider@psy.fsu.edu	157.005
Sanchez, V. Hospital Clinic of Barcelona, CIBERSAM	vgjstau@clinic.ub.es	144.140	Schauder, K. Vanderbilt University School of Medicine	kimberly.b.schauder@vanderbilt.edu	149.003
Sanders, S. J. Yale University School of Medicine	stephansanders@gmail.com	127.077, 150.001, 150.002, 150.003, 150.004, 155.003	Schechtman, M. Albert Einstein College of Medicine	dottoresaa@gmail.com	142.094
Sanderson, C. L. L. UCL Institute of Child Health	charlotte.sanderson.10@ucl.ac.uk	107.093	Scheel-Krüger, J. Center of Functionally Integrative Neuroscience, Aarhus University	kruger@cfm.dk	105.005
Sanger-Hahn, R. Oregon Health & Science University	robbynahn@gmail.com	130.160	Scheeren, A. M. VU University	A.M.Scheeren@vu.nl	141.072, 164.149
Sano, A. Massachusetts Institute of Technology	akanes@mit.edu	128.111	Scheffer, I. E. University of Melbourne	scheffer@unimelb.edu.au	160.027
Santangelo, S. L. Harvard School of Public Health, Massachusetts General Hospital, Harvard Medical School	ssantangelo@pngu.mgh.harvard.edu	166.008	Scheibe, B. University of Salzburg	burghardt.scheibe@ge.com	120.002
Santocchi, E. University of Pisa-Stella Maris Scientific Institute	elisa.santocchi@inpe.unipi.it	107.118	Scheiffele, P. University of Basel	peter.scheiffele@unibas.ch	131.003
Santorelli, F. M. Stella Maris Scientific Institute	fsantorelli@inpe.unipi.it	142.102	Schendel, D. E. National Center on Birth Defects and Developmental Disabilities, CDC	dcs6@cdc.gov	106.053, 159.007, 159.008
Santos, C. W. University of Texas Medical School	Cynthia.W.Santos@uth.tmc.edu	161.065	Scherer, S. W. University of Toronto	stephen.scherer@sickkids.ca	113.020
Santos, J. F. Institut National de la Recherche Scientifique (INRS-EMT), University of Quebec	jfsantos@emt.inrs.ca	117.132	Scherrer, B. Children's Hospital Boston	benoit.scherrer@childrens.harvard.edu	167.003
Santoyo-Lopez, J. Andalusian Human Genome Sequencing Centre (CASEGH), Medical Genome Project (MGP)	jsantoyo@bioinfomgp.org	127.085	Schietecat, I. Ghent University	Inge.Schietecat@UGent.be	160.041
			Schieve, L. A. A. Ph.D. National Center on Birth Defects and Developmental Disabilities	LJS9@cdc.gov	104.002, 106.053, 159.007
			Schipul, S. E. University of North Carolina at Chapel Hill	sarah_schipul@med.unc.edu	123.015
			Schlaug, G. Beth Israel Deaconess Medical Center and Harvard Medical School	gschlaug@bidmc.harvard.edu	167.003

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Schluter, M. D. UMDNJ-School of Osteopathic Medicine	schlutmd@umdnj.edu	135.006	Seery, A. Boston University	amseery@bu.edu	136.011
Schmidt, R. J. University of California, Davis, M.I.N.D. Institute	rjschmidt@ucdavis.edu	106.039, 106.040, 119.002, 161.082	Segal, D. J. University of California, Davis	djsegal@ucdavis.edu	105.028
Schmitt, L. M. University of Texas Southwestern Medical Center	Lauren.Schmitt@UTSouthwestern.edu	147.001	Segal, M. Interdisciplinary Center (IDC) Herzliya	mirisegal@gmail.com	117.173
Schneider, B. C. Vanderbilt Undergraduate Neuroscience Program	bschneider1590@gmail.com	168.002	Segers, M. York University	magalisegers@gmail.com	108.131, 126.039
Schneider, T. University Medical Center Hamburg-Eppendorf	t.schneider@uke.de	123.009	Seijo, R. M. Albert Einstein College of Medicine	zemog19@aol.com	142.094
Schnetz-Boutaud, N. Vanderbilt University	nathalie.schnetz-boutaud@chgr.mc.vanderbilt.edu	127.095	Seltzer, M. M. Waisman Center, University of Wisconsin-Madison	mseltzer@waisman.wisc.edu	116.076
Schoevers, R. A. University Medical Center Groningen	r.a.schoevers@umcg.nl	111.003	Semal, C. Université de Bordeaux	catherine.semali@ipb.fr	126.044
Schohl, K. A. Marquette University	kirsten.schohl@mu.edu	122.006, 130.142	Semino, S. University of Genoa	sarasemino@hotmail.it	144.163, 144.176
Scholl, F. G. Instituto de Biomedicina de Sevilla, Hospital Universitario Virgen del Rocío/CSIC/ Universidad de Sevilla, Departamento de Fisiología Médica y Biofísica	fgs@us.es	105.011	Senju, A. Birkbeck, University of London	a.senju@bbk.ac.uk	163.132
Schreibman, L. University of California, San Diego	lschreibman@ucsd.edu	116.105, 124.022	Senn, K. Oregon Health & Science University	sennk@ohsu.edu	167.006
Schroeder, J. H. York University	jessica4@yorku.ca	164.152	Seo, J. S. Gacheon University Ghil Hospital	childwithlove@hanmail.net	130.143
Schroeder, S. University of Wisconsin-Madison	sschroeder@waisman.wisc.edu	117.162	Serlin, G. Hunter College	gserlin@hunter.cuny.edu	112.006
Schrojenstein Lantman - de Valk, H. Radboud University Nijmegen Medical Centre	H.Lantman@elg.umcn.nl	144.144	Serniclaes, W. CNRS	willy.serniclaes@ulb.ac.be	126.042
Schuller, B. Technische Universität München	Schuller@tum.de	128.102, 128.108	Serra, D. Azienda Ospedaliera Brotzu	dona.serra@tiscali.it	123.002
Schulte-Rüther, M. University Hospital Aachen, Research Center Jülich	mschulte@ukaachen.de	108.142	Serra, J. P. C. P. BAHIANA School of Medicine and Public Health	july_penalva@yahoo.com.br	161.097
Schultz, R. T. Children's Hospital of Philadelphia	schultzrt@chop.edu	108.172, 108.173, 115.066, 129.125, 129.134, 137.028, 142.105, 144.159, 156.004, 160.019, 167.001	Serret, S. Autism Resources Center PACA - Nice	serret.s@pediatrie-chulenval-nice.fr	128.101
Schumann, C. M. UC Davis M.I.N.D. Institute	cschumann@ucdavis.edu	114.036	Servilli, C. World Health Organization	servilic@who.int	130.168
Schutte, C. The Johnson Center for Child Health and Development	cshutte@johnson-center.org	107.078	Sesek Briski, A. Clinical Institute of Clinical Chemistry and Biochemistry	alenska.briski@kclj.si	106.051
Schwartz, L. Mount Sinai School of Medicine	lily.schwartz@mssm.edu	142.108	Sestan, N. Yale University School of Medicine	nenad.sestan@yale.edu	150.001, 150.002, 150.003, 150.004
Schwartz, J. The M.I.N.D. Institute, University of California, Davis	jschwartz@ucdavis.edu	105.006	Seunarine, K. K. UCL Institute of Child Health	k.seunarine@ucl.ac.uk	115.048
Schweitzer, J. University of California, Davis M.I.N.D. Institute	julie.schweitzer@ucdmc.ucdavis.edu	161.082	Seung, H. California State University	hseung@fullerton.edu	106.064, 117.113
Schöttle, D. University Medical Center Hamburg-Eppendorf	d.schoettle@uke.de	123.009	Sevilla, J. University of Valencia	Javier.Sevilla@uv.es	128.115
Scordo, M. R. Careggi University Hospital	Neuropsicofirenze@gmail.it	117.151	Sforazzini, F. Istituto Italiano di Tecnologia Center for Nanotechnology Innovation @NEST	francesco.sforazzini@gmail.com	133.008
Scoto, M. The Dubowitz Neuromuscular Centre UCL, Institute of Child Health	Mariacristina.Scoto@gosh.nhs.uk	127.096	Shah, C. R. Vanderbilt University	charisma.shah@gmail.com	105.018
Scott, H. M. Nisonger Center	haleigh.scott@gmail.com	117.112	Shah, P. Birkbeck College	p.shah@bbk.ac.uk	141.062, 141.069, 141.071
Sebat, J. University of California San Diego	jsebat@ucsd.edu	155.006	Shahidiani, A. King's College London, Institute of Psychiatry	asal.shahidiani@kcl.ac.uk	108.175
Sébire, G. Université de Sherbrooke	guillaume.sebire@usherbrooke.ca	105.022	Shakespeare-Pellington, S. The University of the West Indies	sydonniesp@gmail.com	104.005
			Shankaran, S. Wayne State University	sshankar@med.wayne.edu	117.170
			Sharber, A. C. Children's National Medical Center	asharber@cnmc.org	130.141, 157.001, 160.030, 161.089
			Sharp, F. R. University of California Davis Medical Center; M.I.N.D. Institute	frank.sharp@ucdmc.ucdavis.edu	107.082, 127.079
			Shaw, D. W. University of Washington	ddshaw@u.washington.edu	115.050

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Shea, N. M. University of Notre Dame, Syracuse University	nshea2@nd.edu	116.107, 162.121	Shultz, S. Yale University, Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine	sarah.shultz@yale.edu	123.004, 144.149
Shefer, S. The Sheba Medical Center The Weinberg Child Development Center	midbrain@hotmail.com	143.116, 162.111	Shuster, A. A. Vanderbilt University	amelia.a.shuster@vanderbilt.edu	126.054
Sheinkopf, S. J. Ph.D The Warren Alpert Medical School of Brown University, Women & Infants Hospital	Stephen_Sheinkopf@brown.edu	117.167, 117.170	Sicca, F. Stella Maris Scientific Institute	federico.sicca@gmail.com	142.102
Shekdar, K. CHOP	shekdar@email.chop.edu	115.066	Sideris, J. Frank Porter Graham Child Development Institute	john.sideris@unc.edu	103.001
Shen, J. University of Kentucky	jushen.tom@gmail.com	128.116	Siegel, B. University of California, San Francisco	bryna.siegel@ucsf.edu	163.129
Shen, M. D. M.I.N.D. Institute; University of California at Davis	shen@ucdavis.edu	108.169, 127.079	Siegel, S. Boston University	siegelse@bu.edu	117.121
Shendure, J. University of Washington	shendure@uw.edu	155.008	Siegle, G. J. University of Pittsburgh	gsiegle@pitt.edu	161.087
Shenouda, J. UMDNJ-New Jersey Medical School	Shenoujo@umdnj.edu	160.021	Siemann, J. K. K. Vanderbilt University	justin.k.siemann@vanderbilt.edu	108.131, 126.046, 126.054, 168.002
Sheperd, K. Kennedy Krieger Institute, The Johns Hopkins University School of Medicine	sheperd@kennedykrieger.org	107.098	Sigman, M. University of California, Los Angeles	msigman@ucla.edu	113.026, 116.099, 117.126, 138.032, 143.128, 163.141
Sheppard, B. Johns Hopkins School of Public Health	bsheppar@jhsp.edu	159.008	Signorini, C. University of Siena	cinzia.signorini@unisi.it	135.002
Sheppard, E. University of Nottingham Malaysia Campus	lpxes@psychology.nottingham.ac.uk	160.018	Sikich, L. ASPIRE Research Program, UNC-CH	lsikich@med.unc.edu	102.001, 142.106, 167.008
Sherr, E. UCSF	sherre@neuropeds.ucsf.edu	114.032, 115.045, 142.100	Sikora, D. Providence Neurodevelopmental Center for Children	darryn.sikora@providence.org	142.110
Shetty, N. R. Massachusetts General Hospital	nandita@nmr.mgh.harvard.edu	122.003	Silberberg, D. H. University of Pennsylvania Medical Center	silberbe@mail.med.upenn.edu	107.124, 107.125, 111.002, 158.004
Shi, Y. BGI Shenzhen	shiyujian2@genomics.cn	155.006	Siller, M. Hunter College of the City University of New York	msiller@hunter.cuny.edu	103.007, 112.006, 113.026, 116.099, 143.128
Shic, F. Yale University School of Medicine	frederick.shic@yale.edu	134.001, 134.002	Silva Dias, B. A. A. PIN-Progresso Infantil	barbarasilvadias@gmail.com	144.141
Shier, K. Azusa Pacific University	kshier12@apu.edu	161.090	Simard, I. Centre d'excellence en Troubles envahissants du développement de l'Université de Montréal (CETEDUM)	isabelle.simard.3@umontreal.ca	108.137
Shifman, S. The Hebrew University of Jerusalem	sagiv@vms.huji.ac.il	105.010, 127.060, 127.063	Simard, M. N. CHUQ Research Center, Université de Montréal	marie-noelle.simard@crchuq.ulaval.ca	164.170
Shih, A. Autism Speaks	ashih@autismspeaks.org	116.093	Simmons, C. A. A. University of Georgia	simmons@uga.edu	113.015, 161.091, 163.139
Shikako-Thomas, K. McGill University	keiko.thomas@mail.mcgill.ca	127.068	Simon, K. B. The Center for Children with Special Needs	ksimon@autismct.com	130.170, 130.178
Shimoda, Y. Nagaoka University of Technology	shimo@vos.nagaokaut.ac.jp	127.070	Simon, T. J. UC Davis M.I.N.D. Institute	tjsimon@ucdavis.edu	156.003
Shin, M. S. Seoul National University Hospital, Seoul National University College of Medicine	shinms@snu.ac.kr	140.039	Simonoff, E. Institute of Psychiatry, King's College London	emily.simonoff@kcl.ac.uk	132.003, 161.054, 161.057, 161.095, 161.096
Shinnar, S. Albert Einstein College of Medicine	sshinnar@aol.com	142.094	Simula, D. M. University of Sassari, Azienda Ospedaliera Brotzu	deliasimula@yahoo.it	123.002
Shmaya, Y. Tel Hashomer, Safra Children's Hospital	yael.shmaya@gmail.com	162.111	Sinanis, N. Prometheus Research, LLC	naralys@prometheusresearch.com	128.120
Shoffner, J. Medical Neurogenetics		142.093	Sindberg, H. University of Wisconsin-Madison	hasindbe@wisc.edu	117.140
Shore, S. M. Adelphi University	tumbalaika@aol.com	130.158	Singer, A. Autism Science Foundation	asinger@autismsciencefoundation.org	116.089
Shpyleva, S. National Center for Toxicological Research	Svitlana.Shpyleva@fda.hhs.gov	159.006	Singh, I. Medical University of South Carolina	singhi@musc.edu	162.109
Shtyrov, Y. MRC Cognition and Brain Sciences Unit	yury.shtyrov@mrc-cbu.cam.ac.uk	108.129	Singh, J. S. S. Georgia Institute of Technology	jennifer.singh@hts.gatech.edu	107.101
Shui, A. Massachusetts General Hospital for Children	ASHUI@PARTNERS.ORG	142.109	Singhal, N. Action For Autism	dr.nidhisinghal@gmail.com	113.005, 113.016, 165.003
Shulman, L. H. Albert Einstein College of Medicine	lisa.shulman@einstein.yu.edu	142.094	Singhi, P. Post Graduate Institute of Medical Education and Research	pratibhasinghi@yahoo.com	113.002
			Sininger, Y. S. UCLA	ysininger@mednet.ucla.edu	123.014

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Sinzig, J. LVR-Klinik Bonn	judith.sinzig@lvr.de	113.001	Sokhadze, E. M. University of Louisville	tato.sokhadze@louisville.edu	113.027, 136.008, 162.116
Siracusanu, R. Universita' di Messina	rmsiracusanu@yahoo.it	103.005, 106.071, 151.004	Sokhadze, G. University of Louisville	g0sokh01@louisville.edu	162.116
Sizoo, B. B. Dimence	b.sizoo@hetnet.nl	108.138	Sokoloff, J. L. Children's National Medical Center	jsokoloff@cnmc.org	130.141, 157.001
Skewes, J. Center of Functionally Integrative Neuroscience, Aarhus University	josh.skewes@gmail.com	108.150	Solari, S. University of Genoa	silvanus49@gmail.com	144.163
Skoletsky, J. SynapDx Corp	jskoletsky@synapdx.com	107.082	Solis, E. La Universidad del Zulia	ernesto.solis@gmail.com	106.034, 154.007
Skuse, D. H. Institute of Child Health, UCL	d.skuse@ucl.ac.uk	107.093, 107.095, 107.103, 108.144, 110.003, 112.008, 113.004, 115.048, 116.083, 127.096, 130.146, 130.148, 140.038, 140.040, 160.024, 163.138, 164.151	Solomon, J. R. R. University of Western Sydney	jamilasolomon@hotmail.com	124.027
Skuse, D. H. Institute of Child Health, University College London	d.skuse@ucl.ac.uk	140.040	Solomon, M. Department of Psychiatry, M.I.N.D. Institute, Imaging Research Center	marjorie.solomon@ucdmc.ucdavis.edu	108.171, 117.138, 144.161, 154.003, 161.082, 164.166
Slason, E. University of Colorado Denver, Anschutz Medical Campus	erin.slason@gmail.com	108.132	Someki, F. Hamamatsu University School of Medicine	someki@mac.com	113.022, 132.007
Slattery, J. Arkansas Children's Hospital	JCSlattery@uams.edu	142.098	Sommer, J. Philipps-University Marburg	sommerj@med.uni-marburg.de	108.134
Slaughter, V. P. The University of Queensland	vps@psy.uq.edu.au	141.079	Sonnino, F. Paediatric Hospital Bambino Gesù	fabiana.sonnino@me.com	124.026
Slifer, S. H. University of Miami	sslifer@med.miami.edu	127.078	Soorya, L. Rush University	latha_soorya@rush.edu	123.013, 130.153, 167.004
Sloan, C. University of Oxford	carolyn.sloan@ndcn.ox.ac.uk	114.033	Sorich, M. J. University of South Australia	michael.sorich@unisa.edu.au	135.004
Smith, A. B. King's College London, Institute of Psychiatry	anna.smith@kcl.ac.uk	108.146	Sotgiu, S. University of Sassari	stefanos@uniss.it	123.002
Smith, A. C. UC Davis	asmith3142@gmail.com	108.171	Souders, M. C. University of Pennsylvania School of Nursing/The Children's Hospital of Philadelphia	souders@email.chop.edu	142.105, 142.109, 164.159
Smith, C. D. University of Kentucky	csmith@mri.uky.edu	129.132	Soulières, I. University of Quebec in Montreal	soulieres.isabelle@uqam.ca	108.137, 108.160, 141.088, 160.033, 164.161
Smith, I. M. Dalhousie University/ IWK Health Centre	isabel.smith@iwk.nshealth.ca	102.007, 110.001, 111.008, 112.003, 117.132, 121.008, 130.152, 143.123, 163.128	Sourander, A. University of Turku, Turku University Hospital	andre.sourander@utu.fi	106.056, 106.058
Smith, K. S. Impact Assessment, Inc.	karen.smith@cdph.ca.gov	106.060	Soussana, M. Autism Resources Center, CHRU Montpellier and Laboratory Epsilon	m-soussana@chu-montpellier.fr	161.056
Smith, M. L. Research Institute, Hospital for Sick Children	marylou.smith@sickkids.ca	108.136, 108.154	Soussignan, R. CNRS UMR 517, CSGA	rsoussignan@sfr.fr	108.174
Smith, T. J. Birkbeck, University of London	tj.smith@bbk.ac.uk	130.157	South, M. Brigham Young University	south@byu.edu	141.043, 141.075, 161.051, 161.075, 164.157, 166.005
Smith, V. University of Alberta	veronica.smith@ualberta.ca	130.159, 143.124	Spain, D. King's College London, Institute of Psychiatry	debbie.spain@iop.kcl.ac.uk	108.146, 108.175
Snow, A. V. Children's Hospital Boston	anne.snowgallagher@childrens.harvard.edu	121.001, 127.071, 142.100, 155.007	Sparaci, L. National Research Council of Italy (CNR)	laura.sparaci@istc.cnr.it	117.137
Snyder, A. C. The Sheryl and Daniel R. Tishman Cognitive Neurophysiology Laboratory, Albert Einstein College of Medicine	adam@adamcsnyder.com	123.012	Speer, L. A. Cleveland Clinic	llboo22@yahoo.com	107.081
Soffes, S. Mount Sinai School of Medicine	sarah.soffes@mssm.edu	126.056, 130.153, 167.004	Spek, A. A. Mental Health Institution Eindhoven	aa.spek@ggze.nl	164.156, 164.175
Sofrin, R. Sheba Medical Center, Weinberg Child Development Center, Israel	midbrain@walla.com	143.116	Spence, S. J. Children's Hospital Boston	sarah.spence@childrens.harvard.edu	110.002, 115.060, 142.100
Sofronoff, K. School of Psychology, University of Queensland	kate@psy.uq.edu.au	130.144	Spencer, M. D. University of Cambridge	mds1003@cam.ac.uk	115.042
Soghomonian, J. J. Boston University School of Medicine	jjsogho@bu.edu	114.035	Sperry, L. A. Griffith University/University of Sunshine Coast Australia	lasperry@hotmail.com	164.172
Sohl, K. University of Missouri	sohkh@health.missouri.edu	142.109, 142.112	Spiro, J. E. Simons Foundation	jspiro@simonsfoundation.org	127.061
			Spjut Janson, B. Region Västra Götaland, University of Gothenburg	birgitta.spjut@vgregion.se	157.003
			Squires, L. Shire Development LLC	lsquires@shire.com	162.106
			Srinath, S. NIMHANS		115.047
			St. Pourcain, B. University of Bristol	Beate.StPourcain@Bristol.ac.uk	140.038

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Staal, W. Radboud University	w.staal@karakter.com	127.081	Stillman, R. UTD	stillman@utdallas.edu	106.038
Stadnick, N. San Diego State University/ University of California, San Diego Joint Doctoral Program in Clinical Psychology	nstadnic@ucsd.edu	116.100, 130.171	Stirling, L. University of Melbourne	lesleyfs@unimelb.edu.au	117.119
Stahmer, A. Rady Children's Hospital, San Diego	astahmer@casrc.org	113.012, 116.105, 124.022, 130.171, 165.004	Stockmann, L. Centrum Autisme Rivierduinen	a.stockmann@centrumautisme.nl	141.085, 161.069, 161.083
Stainbrook, A. Vanderbilt Kennedy Center	alacia.stainbrook@vanderbilt.edu	113.029	Stoddart, K. P. P. The Redpath Centre	kevin.stoddart@redpathcentre.ca	116.082, 142.097, 160.037
Staines, A. Dublin City University	anthony.staines@dcu.ie	106.031	Stoesz, B. M. M. University of Manitoba	umsto3@cc.umanitoba.ca	130.137, 130.151
Stallen, E. Psychology Practice		165.001	Stokes, M. A. School of Psychology, Deakin University	mark.stokes@deakin.edu.au	117.114, 117.143
Stamova, B. S. University of California Davis Medical Center; M.I.N.D. Institute	boryana.stamova@ucdmc.ucdavis.edu	127.079	Stokes, P. R. Imperial College London	paul.stokes@imperial.ac.uk	108.151
Stanaway, I. B. University of Washington	bard@u.washington.edu	155.008	Stone, W. L. University of Washington	stonew@uw.edu	107.079
Stanfield, A. C. University of Edinburgh	andrew.stanfield@ed.ac.uk	108.148	Stoodley, C. J. American University	stoodley@american.edu	131.001
Starr, E. University of Windsor	estarr@uwindsor.ca	106.042	Storino, R. Careggi University Hospital	rosstori@virgilio.it	117.151
Startin, C. M. M. UCL Institute of Child Health	carla.startin.09@ucl.ac.uk	108.144	Stothers, M. The University of Western Ontario	mstothe2@uwo.ca	123.008
State, M. W. Yale University School of Medicine	matthew.state@yale.edu	127.072, 127.077, 150.001, 150.002, 150.003, 150.004, 155.003	Strang, J. F. Children's National Medical Center	jstrang@cnmc.org	130.141, 157.001
Stanton, S. M. Institute of Child Health, UCL	s.stanton@ucl.ac.uk	112.008, 113.004, 116.083, 130.146	Strathearn, L. Baylor College of Medicine/ Texas Children's Hospital	lanes@bcm.edu	122.007
Steer, R. A. UMDNJ-School of Osteopathic Medicine	steer@umdnj.edu	135.006	Strauss, K. Autism Treatment and Research Centre "Una Breccia nel Muro"	stine_str@yahoo.de	143.120
Stein, J. L. The University of California, Los Angeles	JasonLouisStein@gmail.com	120.006	Strauss, M. S. University of Pittsburgh	strauss@pitt.edu	129.132, 134.003
Stein, T. P. UMDNJ-School of Osteopathic Medicine	tpstein@umdnj.edu	135.006	Strik-Lievers, L. Università degli Studi di Milano	luisa.strik@libero.it	113.003
Steiner, R. D. Oregon Health & Science University	steinerr@ohsu.edu	106.035, 127.097, 142.103	Stroganova, T. A. Moscow State University of Psychology and Education (MSUPE)	stroganova56@mail.ru	144.165
Steinman, K. J. Seattle Children's Research Institute, University of Washington	kylejs@u.washington.edu	142.100	Sturm, H. Child and Adolescent Psychiatry, Stockholm County Council		107.104
Steinmetz, S. University of Colorado Denver	sarah.steinmetz@ucdenver.edu	122.002	Suckling, J. University of Cambridge	js369@cam.ac.uk	108.145, 108.158, 115.042
Stenroos, E. S. UMDNJ-RWJMS	stenroos@umdnj.edu	127.080	Sucksmit, E. The Open University	es504@medschl.cam.ac.uk	137.030
Stephenson, K. Brigham Young University	kevintrombone@gmail.com	141.043	Sugarman, L. I. Rochester Institute of Technology	lisdsp@rit.edu	128.113
Sterling, A. University of Wisconsin-Madison	sterling2@wisc.edu	117.162	Sugiyama, T. Aichi Children's Health and Medical Center, Hamamatsu University School of Medicine	toshirou_sugiyama@mx.achmc.pref.aichi.jp	141.046
Sterling, L. UCLA Semel Institute for Neuroscience & Human Behavior	lsterling@mednet.ucla.edu	110.005	Suh, J. University of Connecticut	jsuh05@gmail.com	160.019, 166.002
Stevens, A. University of Washington	as77@uw.edu	142.100	Sukenik, N. Tel Aviv University	nufaryosef@gmail.com	112.007, 144.148
Stevens, C. E. E. Jr. University of Alabama at Birmingham	liveoak@uab.edu	108.163, 108.167	Sullings, N. Autism-Europe aisbl	Nikki.sullings@autismeurope.org	128.102
Stevens, J. University of Utah	jstevens@genetics.utah.edu	127.069	Sullivan, A. IWK Health Center	aprilsullivan_@hotmail.com	130.152
Stevens, M. C. Institute of Living, Hartford Hospital / Yale University	msteven@harthosp.org	156.004, 160.019	Sun, J. University of Missouri Columbia	sunj@missouri.edu	142.089
Stevens, S. Marquette University	sheryl.stevens@mu.edu	122.006, 130.142	Sun, X. University of Cambridge	xs227@medschl.cam.ac.uk	102.008
Stevenson, R. A. Vanderbilt University Medical Center	ryan.andrew.stevenson@gmail.com	108.131, 126.046, 126.054, 168.002	Sundvall, J. National Institute for Health and Welfare	jouko.sundvall@thl.fi	106.058
Stewart, M. E. Heriot-Watt University	m.e.stewart@hw.ac.uk	117.148, 141.054	Sung, A. N. University of Victoria	ansung@uvic.ca	130.159, 130.163
Steyaert, J. University of Leuven (KU Leuven)	jean.steyaert@med.kuleuven.be	117.116, 126.049, 139.035, 141.070, 144.143, 144.154	Sung, M. Institute of Mental Health	min_sung@imh.com.sg	161.067, 161.073, 161.099
			Sung, S. Duke-NUS Graduate Medical School, Institute of Mental Health	sharon.sung@duke-nus.edu.sg	161.073

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Supekar, K. Stanford University, Stanford University	ksupekar@stanford.edu	108.127, 115.069, 149.004	Talboom, A. MEE Drenthe	a.talboom@lentis.nl	143.132
Surcel, H. M. National Institute for Health and Welfare	helja-marja.surcel@thl.fi	106.058	Tan, E. Sun Yat-sen University	alvintan.adei@gmail.com	144.173
Sutcliffe, J. S. Vanderbilt University	james.s.sutcliffe@vanderbilt.edu	127.064, 147.004	Tan, J. W. National University of Singapore	tan.julianne@nus.edu.sg	161.067, 161.099
Suttrup, J. Netherlands Institute for Neuroscience, NeuroImaging Center Groningen	judith.suttrup@web.de	108.138	Tanaka, J. W. University of Victoria	jtanaka@uvic.ca	130.163, 167.001
Swaab, H. Leiden University, Faculty of Social Sciences	HSwaab@fsw.leidenuniv.nl	160.025, 164.160, 166.003	Tancredi, D. J. UC Davis School of Medicine	djtancredi@ucdavis.edu	104.006, 106.039, 106.040, 119.003
Swain, L. University of California, Davis	leswain@ucdavis.edu	117.138, 144.161	Tancredi, R. University of Pisa-Stella Maris Scientific Institute	raffaella.tancredi@inpe.unipi.it	107.114, 107.118, 142.102
Swanson, A. Vanderbilt Kennedy Center; Treatment and Research Institute for Autism Spectrum Disorders (TRIAD)	amy.r.swanson@vanderbilt.edu	128.099	Tang, K. University of Notre Dame	ktang@nd.edu	116.107, 128.104, 130.172, 143.130, 162.121
Swanson, M. R. R. Hunter College of the City University of New York	mswanson@gc.cuny.edu	103.007, 112.006	Tani, M. Showa University	tanimambo@hotmail.co.jp	136.021
Swapp, D. UCL	d.swapp@cs.ucl.ac.uk	141.044	Tanner, K. J. J. The Ohio State University	tanner.156@osu.edu	160.039
Swedo, S. E. National Institute of Mental Health	swedos@mail.nih.gov	115.060	Tartarisco, G. Institute of Clinical Physiology, National Research Council (CNR)	gennaro.tartarisco@ifc.cnr.it	106.071, 128.112
Sweeney, D. Monash University	deborah.sweeney@monash.edu	161.071	Tassone, F. UC Davis M.I.N.D. Institute	ftassone@ucdavis.edu	104.006, 119.003
Sweeney, J. A. University of Texas Southwestern Medical Center	john.sweeney@utsouthwestern.edu	147.001	Taub, M. A. Johns Hopkins Bloomberg School of Public Health	mtaub@jhsph.edu	106.046
Sweeney, M. R. Dublin City University	maryrose.sweeney@dcu.ie	106.031	Tavassoli, T. Seaver Autism Center, Mount Sinai School of Medicine	teresa.tavassoli@gmail.com	126.056, 142.108
Switala, A. E. University of Louisville	andy.switala@louisville.edu	115.071	Tawil, B. King Faisal Specialist Hospital and Research Center	bassmah-s@hotmail.com	127.075
Szabó, G. Institute of Experimental Medicine	szabo.gabor@koki.mta.hu	105.026	Taylor, C. M. Vanderbilt Kennedy Center	cora.m.taylor@vanderbilt.edu	111.004, 113.029
Szatmari, P. Offord Centre for Child Studies & McMaster University	szatmar@mcmaster.ca	102.007, 110.001, 111.008, 112.003, 117.132, 121.008, 127.088, 135.003, 163.128	Taylor, J. L. Vanderbilt Kennedy Center	julie.l.taylor@vanderbilt.edu	116.076, 161.086
			Taylor, M. J. Hospital for Sick Children	margot.taylor@sickkids.ca	108.136, 108.154, 108.157, 149.001
			Taylor, M. J. Institute of Education	M.Taylor@ioe.ac.uk	127.089
			Tea, Y. Nova Southeastern University	yintea@nova.edu	162.117
			Tebbenkamp, A. Yale University School of Medicine	andrew.tebbenkamp@yale.edu	150.003
			Tekola, B. The Open University	beth.tekola@yahoo.com	113.008
			Temple, K. Newcastle University	k.j.temple@newcastle.ac.uk	117.147
			Tenenbaum, E. J. Women & Infants Hospital	elenatenenbaum@gmail.com	117.167
			Teng, B. L. University of North Carolina School of Medicine	brianteng@unc.edu	105.021
			Terner, J. S. Montefiore Medical Center	jordan.terner@gmail.com	136.009
			Teufel, K. Goethe University	karoline.teufel@kgu.de	124.020
			Teunisse, J. P. Hogeschool van Arnhem en Nijmegen, Radboud University Nijmegen Medical Centre, Dr. Leo Kannerhuis	janpieter.teunisse@han.nl	116.091, 144.144, 161.063
			Thapar, A. Cardiff University	thapar@cardiff.ac.uk	161.060
			The BASIS Team, Birkbeck, University of London	basis@bbk.ac.uk	163.133
			The BASIS Team	basis@bbk.ac.uk	134.007, 134.008, 136.010, 146.001, 163.132
			Theilmann, R. J. University of California, San Diego	rtheilmann@ucsd.edu	115.041, 115.051

T

Tachdjian, R. UCLA	raffitachdjian@hotmail.com	123.014
Taffe, J. R. Monash University	john.taffe@monash.edu	116.077, 130.144, 161.071
Tager-Flusberg, H. Boston University	htagerf@bu.edu	108.135, 116.093, 117.121, 117.172, 136.011, 136.017, 163.143
Takahashi, H. National Center of Neurology and Psychiatry, Japan, National Institute of Mental Health	htakahashi@ncnp.go.jp	123.017
Takahashi, T. N. University of Missouri Thompson Center for Autism & Neurodevelopmental Disorders	takahashin@missouri.edu	117.110, 142.112
Takahashi, V. N. University São Paulo, Biosciences Institute	vnvot@usp.br	127.093
Takayama, Y. Showa University	ober-des-regenbogen429@hotmail.co.jp	136.021
Takayanagi, N. Hamamatsu University School of Medicine	n_takayanagi_0389@yahoo.co.jp	113.022, 132.007
Takei, R. National Center of Neurology and Psychiatry, Japan, National Institute of Mental Health	rtakei@ncnp.go.jp	123.017
Takser, L. Université de Sherbrooke	larissa.takser@usherbrooke.ca	105.022
Tal, S. Bar-Ilan University	shahar0190@gmail.com	128.102, 128.108, 141.068

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Thiou, M. Netherlands Institute for Neuroscience, Neuroimaging Center Groningen	m.a.thiou@umcg.nl	108.138	Tolley, S. E. Brigham Young University	setolley@gmail.com	112.001
Thomas, C. L. L. City University London	claire.thomas.2@city.ac.uk	144.146	Toma, C. University of Barcelona	claudio.toma2@unibo.it	127.091
Thomas, K. Children's Hospital of Philadelphia	thomaska@email.chop.edu	127.069	Tomalski, P. University of Warsaw	p.tomalski@uw.edu.pl	163.145
Thommen, E. University of Applied Sciences Western Switzerland	evelyne.thommen@eesp.ch	141.047	Tomatis, C. Hospital General Universitario Gregorio Marañon	crisrina_ts@hotmail.com	136.014
Thompson, A. Offord Centre for Child Studies & McMaster University	athomps@mcmaster.ca	102.007, 110.001, 112.003, 121.008	Tommerdahl, M. University of North Carolina	mark.tommerdahl@gmail.com	122.003, 123.010, 126.056
Thompson, M. R. R. Boston University	mrt@bu.edu	117.172	Tompkins, V. H. University of Pennsylvania School of Nursing	vh@nursing.upenn.edu	164.159
Thompson, P. M. UCLA School of Medicine	Paul.Thompson@loni.ucla.edu	129.123	Tonge, B. J. Monash University	bruce.tonge@monash.edu	116.077, 161.071, 162.101
Thompson, R. Children's Hospital of Philadelphia	rebeccajpenna@gmail.com	144.159	Tongiorgi, E. University of Trieste	tongi@units.it	135.003
Thomsen, P. H. Aarhus University Hospital	Per.Hove.Thomsen@ps.rm.dk	106.074	Top, D. N. Jr. Brigham Young University	david.n.top@gmail.com	141.043
Thomson, M. I. I. Autism Teaching Institute	mthomson@student.unimelb.edu.au	130.167	Toritsyn, A. Ministry of Education, Government of Ontario	arkadi.toritsyn@ontario.ca	132.005
Thorburn, C. University of Edinburgh	Carolyn.Thorburn@ed.ac.uk	108.148	Toro, R. Institut Pasteur	rto@pasteur.fr	115.074
Thurm, A. National Institute of Mental Health	athurm@mail.nih.gov	115.053, 115.060, 129.130	Torquet, N. CNRS UMR 2182	nicolas.torquet@pasteur.fr	133.001
Tian, L. Centers for Disease Control and Prevention	LTian@cdc.gov	106.053	Torres, I. UPR School of Public Health	ilia.torres@upr.edu	105.015
Tian, Y. University of California Davis Medical Center; M.I.N.D. Institute	tiany18@gmail.com	127.079	Torricco, B. University of Barcelona	barticoa@gmail.com	127.091
Tian, Y. University of California Los Angeles	ytianidyll@ucla.edu	155.001	Torrioli, M. G. Università Cattolica del Sacro Cuore, Cattedra di Neuropsichiatria Infantile	mgtorrioli@rm.unicatt.it	153.004
Tick, B. SGDP, IoP, King's College London	beata.b.tick@kcl.ac.uk	161.079	Tortorella, G. Università di Messina	gaetano.tortorella@unime.it	103.005, 106.071, 151.004
Tierney, E. Kennedy Krieger Institute	tierney@kennedykrieger.org	106.035	Tosetti, M. Magnetic Resonance Laboratory, Stella Maris Scientific Institute	m.tosetti@inpe.unipi.it	156.005
Tijus, C. Sr. EA 4004 Lab CHArT/LUTIN, Paris-8 University	tijus@univ-paris8.fr	168.008	Touliatos, G. EPSYPEA	maktoul@yahoo.gr	124.023
Tilahun, D. Addis Ababa University	dejentn@yahoo.com	113.008	Tourelle, A. L. CHU de Toulouse	tourelle-pouget.al@chu-toulouse.fr	130.175
Tilley, M. Central Methodist University	mtilley@centralmethodist.edu	106.033	Toutain, A. Inserm UMR930, Centre Hospitalier Regional Universitaire	toutain@med.univ-tours.fr	120.007
Tillman, D. Campbell University College Pharmacy and Health Sciences	tillmand@campbell.edu	106.057	Tovar, A. T. T. University of Connecticut	andrea.tovar@uconn.edu	164.155
Tillman, R. Yale Child Study Center	rachael.tillman@yale.edu	123.001, 136.009, 136.012, 136.018, 136.022	Townsend, J. University of California, San Diego	jtownsend@ucsd.edu	115.041, 115.051
Timpson, N. J. School of Social and Community Medicine	n.j.timpson@bristol.ac.uk	140.038	Travers, B. G. G. Waisman Center University of Wisconsin-Madison	btravers@wisc.edu	115.046, 164.162
Tint, A. York University	amitint@yorku.ca	161.062	Travieso, R. Duke University School of Medicine	travieso.rob@gmail.com	136.009
Tipton, L. A. University of California, Riverside	ltipt001@ucr.edu	113.031	Triche, E. W. Brown University	elizabeth_triche@brown.edu	110.002
Tirado Maraver, M. J. J. Universidad de Sevilla	mjtirado@us.es	141.056	Tristán, A. University of Barcelona	alba.tristan@gmail.com	127.091
Tirrell, C. Prometheus Research, LLC	charles@prometheusresearch.com	128.121, 128.122	Trocchio, J. CasaBlanca Academy	jtrocchio@casablancaacademy.org	162.117
Tjus, T. University of Gothenburg	tomas.tjus@psy.gu.se	157.003	Troiani, V. Children's Hospital of Philadelphia, University of Pennsylvania	troiani@gmail.com	129.125
Todd, J. T. Florida International University	james.todd@fiu.edu	144.156	Tromp, D. P. University of Wisconsin	do.tromp@gmail.com	164.162
Tojo, Y. Ibaraki University	tojo@mx.ibaraki.ac.jp	141.049, 141.052	Troupou, A. EPSYPEA	troupouant@yahoo.gr	117.111, 124.023
Toledo, V. Hospital de Especialidades Pediátricas	virgitoledo@hotmail.com	106.034	Troyb, E. University of Connecticut	eva.troyb@uconn.edu	156.004, 160.019, 160.034, 166.002
			Trump, D. Central Manchester University Hospitals NHS Foundation Trust	Dorothy.trump@manchester.ac.uk	104.001

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Tryfon, A. McGill University	ana.tryfon@mail.mcgill.ca	115.070, 115.072, 115.075, 129.133, 129.135	Uno, Y. Yokohama Psycho- Developmental Clinic, Nagoya University Hospital	yota_u@ypdc.net	107.107
Tsaftaris, S. IMT-Institutions Markets Technologies, Institute for Advanced Studies Lucca, Italy		133.008	Uppal, N. Mount Sinai School of Medicine	neha.uppal@mssm.edu	133.002
Tsai, A. Oregon Health & Science University	tsaia@ohsu.edu	106.035	Urraca, N. UTHSC	nurraca@uthsc.edu	127.083
Tsai, P. C. Johns Hopkins Bloomberg School of Public Health	ptsai@jhsph.edu	117.123, 125.036	Utgaard, K. Vestfold Hospital	Kristin.utgard@piv.no	130.166
Tsai, P. Boston Children's Hospital	peter.tsai@childrens.harvard.edu	133.004	Uzuegbunam, N. University of Kentucky	nchukaobah@gmail.com	128.116
Tsang, K. UCSF	Kathryn.Tsang@ucsf.edu	127.092	V		
Tsang, T. Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine	ttsang@emory.edu	163.144	Vaccari, E. Boston University School of Medicine		107.086
Tseng, T. Campbell University College of Pharmacy and Health Sciences	tsengt@campbell.edu	106.057	Vadasz, E. Institute of Psychiatry, Hospital of the Faculty of Medicine, University of Sao Paulo	vadasz.ipq@usp.br	127.093
Tsuji, M. Chukyo University	tsujii@as-japan.jp	113.022, 132.007	Vaidya, C. J. Georgetown University, Children's National Medical Center	cjv2@georgetown.edu	114.040
Tucci, L. C. The Help Group/UCLA Autism Research Alliance	laratucci@mac.com	106.069	Vaillancourt, T. University of Ottawa	tracy.vaillancourt@uottawa.ca	102.007, 110.001, 111.008, 112.003, 121.008
Tucker, L. A. Birkbeck, University of London	l.tucker@bbk.ac.uk	134.008	Vaishampayan, A. Therapy West Inc.	ashulikeit@yahoo.com	113.006
Tudusciuc, O. Caltech	oana@hss.caltech.edu	137.023	Vajaratkar, V. P. P. Sangath, Goa	vivekvajaratkar@rediffmail.com	113.003
Tuller, L. Université François Rabelais, INSERM U930	laurie.tuller@univ-tours.fr	117.153	Valacchi, G. University of Ferrara	giuseppe.valacchi@unife.it	135.002
Tullo, D. Perceptual Neuroscience Laboratory for Autism and Development (PNLab)	domenico.tullo@mail.mcgill.ca	144.137	Valchev, N. NeuroImaging Center Groningen	n.valchev@umcg.nl	108.138
Turley, S. D. University of Texas Southwestern Medical School	Stephen.Turley@UTSouthwestern.edu	102.004	Valdés-Mas, R. University of Oviedo-IUOPA	rvaldes@degradome.uniovi.es	127.091
Turner, E. H. University of Washington	emilyt@u.washington.edu	155.008	Valente, M. Marcus Autism Center, Children's Healthcare of Atlanta & Emory University School of Medicine	michael.valente@choa.org	107.090, 107.123
Turner-Brown, L. University of North Carolina at Chapel Hill	lauren_turner@med.unc.edu	106.041, 124.021, 143.118	Valeri, G. Children's Hospital Bambino Gesù	giovanni.valeri@opbg.net	124.026, 143.114, 143.120
Tutkunkardas, D. Istanbul University	deniztutkun@gmail.com	160.035	Valerian, J. Goethe University	jennifer.valerian@kgu.de	124.020
Tye, C. R. Institute of Psychiatry, King's College London	charlotte.tye@kcl.ac.uk	161.088	Valicenti-McDermott, M. D. Albert Einstein College of Medicine	rvalicenti@hotmail.com	142.094
Tyrer, F. University of Leicester	fct2@le.ac.uk	102.003	Valles, V. Hospital Clinic of Barcelona	virginiavalles10@hotmail.com	144.140
Tyson, K. E. University of Connecticut	katherine.tyson@uconn.edu	156.004, 160.019, 160.034, 166.002	Valvo, G. Stella Maris Scientific Institute	gvalvo@inpe.unipi.it	142.102
U			van Aken, M. A. Department of Developmental Psychology, University Utrecht	M.A.G.vanAken@uu.nl	145.004
Uchiyama, T. Fukushima University, Yokohama Psycho- Developmental Clinic	tokiouch@ca2.so-net.ne.jp	107.107	Van Baaren, J. M. University of Miami Miller School of Medicine	JVanBaaren@med.miami.edu	127.082
Uddin, L. Q. Q. Stanford University	lucina@stanford.edu	108.127, 115.069, 149.004	van Balkom, I. D. Lentis Psychiatric Institute	idcvanbalkom@yahoo.com	160.023
Ukura, T. Institute of Clinical Medicine, University of Oulu	tarja.ukura@ppshp.fi	162.114	van Berckelaer-Onnes, I. A. Leiden University	berck@fsw.leidenuniv.nl	107.080
Uljarevic, M. Wales Autism Research Centre, School of Psychology, Cardiff University, United Kingdom	UljarevicM@cardiff.ac.uk	161.084	van Bokhoven, H. Radboud University Medical Centre	H.vanBokhoven@gen.umcn.nl	120.007
Ulusoy, E. La Trobe University	eulusoy@students.latrobe.edu.au	107.084	Van Bourgondien, M. E. University of North Carolina	mvan2@email.unc.edu	107.112
Ulvund, S. E. University of Oslo	s.e.ulvund@ped.uio.no	139.036	Van Daalen, E. University Medical Centre	E.vanDaalen@umcutrecht.nl	126.053
Underwood, H. M. Washington University School of Medicine	underwoh@psychiatry.wustl.edu	162.119	Van de Water, J. The M.I.N.D. Institute, University of California, Davis	javandewater@ucdavis.edu	105.004, 114.037, 135.005
			van den Bergh, S. Dr. Leo Kannerhuis	s.vandenbergh@leokannerhuis.nl	164.149

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
van den Boomen, C. Utrecht University	C.vandenboomen@uu.nl	123.006	Veenstra-Vander Weele, J. Vanderbilt University	jeremy.veenstra-vanderweele@Vanderbilt.Edu	147.003
Van den Noortgate, W. University of Leuven (KU Leuven)	wim.vandennoortgate@kuleuven-kulak.be	141.045	Veenstra-VanderWeele, J. Monroe Carell Children's Hospital at Vanderbilt University	j.vvw@vanderbilt.edu	102.001, 105.018
Van den Wildenberg, W. P. M. University of Amsterdam, Amsterdam Center for the Study of Adaptive Control in Brain and Behaviour (Acacia)	w.p.m.vandenwildenberg@uva.nl	145.002	Vehorn, A. Vanderbilt University	alison.vehorn@vanderbilt.edu	107.083, 111.004, 160.026
Van der Hallen, R. E. University of Leuven (KU Leuven)	ruth.vanderhallen@student.kuleuven.be	141.045	Venkatesh, S. Deakin University	svetha.venkatesh@deakin.edu.au	128.117
Van der Meer, J. M. J. Radboud University Medical Centre Nijmegen, Donders Institute for Brain, Cognition and Behavior, Karakter Child and Adolescent Psychiatry University Centre Nijmegen	j.vandermeer@psy.umcn.nl	145.001	Ventola, P. Yale University	pamela.ventola@yale.edu	129.129
van der Sijde, A. Yulius Autisme	a.vandersijde@yulius.nl	161.063	Venuti, P. University of Trento	paola.venuti@unitn.it	117.137, 117.150, 127.087, 164.150
van der Vegt, E. Yulius	e.vandervegt@yulius.nl	167.002	Vercellone, A. C. Saint Louis University	avercell@slu.edu	162.115
van Engeland, H. Rudolf Magnus Institute of Neuroscience, University Medical Center Utrecht	H.vanengeland@planet.nl	164.160, 166.003	Verheij, F. Sophia Children's Hospital	f.verheij@erasmusmc.nl	161.078
Van Esch, H. UZ Leuven	hilde.vanesch@uzleuven.be	120.007	Verhoeven, J. S. KU Leuven	jvhoev2@gmail.com	126.049
Van Eylen, L. University of Leuven (KU Leuven)	Lien.Vaneylen@ped.kuleuven.be	144.143	Verhulst, F. C. Erasmus MC-Sophia's Childrens Hospital	F.verhulst@erasmusmc.nl	161.078, 167.002
Van Gool, A. R. Yulius Academy	a.vangool@yulius.nl	161.078	Vermeirsch, J. Ghent University	Julie.Vermeirsch@ugent.be	164.165
van Ham, N. GGZ Eindhoven	nc.van.ham@ggz.nl	164.175	Vernon, J. M. University of Notre Dame	jvernon@nd.edu	128.104
Van Hecke, A. V. Marquette University	amy.vanhecke@marquette.edu	122.006, 130.142	Verpelli, C. CNR Institute of Neuroscience	c.verpelli@in.cnr.it	120.001
Van-Hemert, L. Kin's College London, Institute of Psychiatry	lisa.vanhemert@kcl.ac.uk	108.175	Verschuur, R. Dr. Leo Kannerhuis	r.verschuur@leokannerhuis.nl	162.120
Van Leeuwen, K. University of Leuven (KU Leuven)	Karla.Vanleeuwen@ppw.kuleuven.be	103.006, 137.025, 160.028	Vicari, S. Paediatric Hospital Bambino Gesù	stefano.vicari@opbg.net	124.026, 143.114, 143.120
Van Naarden-Braun, K. Centers for Disease Control and Prevention		106.053	Vicente, A. M. Instituto Nacional de Saúde Doutor Ricardo Jorge	avicante@igc.gulbenkian.pt	140.041, 162.104
Van Ness, M. University of Notre Dame	mvanness89@gmail.com	116.107, 162.121	Vicidomini, C. CNR Institute of Neuroscience	c.vicidomini@in.cnr.it	120.001
Van Rijn, S. Leiden University, Leiden	sriijn@fsw.leidenuniv.nl	141.083	Vick, T. Barwon Health	Tanyat@BarwonHealth.org.au	160.027
van Santen, J. Oregon Health & Science University, Biospeech, Inc.	vansanten@cslu.ogi.edu	117.118, 130.160, 139.034, 161.055	Viechili, M. A. York University	mviechili@yorku.ca	117.160
van Steijn, D. J. J. Karakter Child and Adolescent Psychiatry University Centre Nijmegen	d.vansteijn@karakter.com	145.001, 145.003, 145.004	Villalobos, M. E. Children's Hospital of Philadelphia	villalobosm@email.chop.edu	107.081, 132.001
Vance, J. M. University of Miami Miller School of Medicine	jvance@med.miami.edu	127.082	Villamia, B. Fundación Orange	blanca.villamia@orange.com	128.114
Vander Wyk, B. C. Yale University	brent.vanderwyk@yale.edu	108.141, 108.166, 156.002	Villano, M. University of Notre Dame	Michael.A.Villano.4@nd.edu	128.104, 162.121
Vanegas, S. B. B. Loyola University Chicago	svanegas@luc.edu	117.154	Villanueva, C. M. Center for Research in Environmental Epidemiology (CREAL), Instituto de Investigación Sanitaria IMIM-Hospital del Mar, Biomedical Research Centre Network for Epidemiology and Public Health (CIBERESP)	cvillanueva@creal.cat	159.010
Vanwoerden, S. University of Texas Medical School	Salome.Vanwoerden@uth.tmc.edu	161.065	Visai, L. University of Pavia, Salvatore Maugeri Foundation, IRCCS	livia.visai@unipv.it	107.117
Varrall, R. Great Ormond Street Hospital	rebecca.varrall@gosh.nhs.uk	107.103	Viscidi, E. W. Brown University	emma_viscidi@brown.edu	110.002
Varvil, T. S. University of Utah	tenavarvil50@gmail.com	127.069	Viskochil, J. Utah Autism Research Program	joe.viskochil@utah.edu	107.081, 148.001, 148.002, 148.003, 148.004, 160.046
Vashisht, A. A. The University of California, Los Angeles	avashisht@mednet.ucla.edu	120.006	Vismara, L. University of Cagliari	vismara@unica.it	113.024
Vazquez, M. Hospital General Universitario Gregorio Marañon	vazquezlopezmaria@gmail.com	136.014	Vismara, L. A. University of California at Davis M.I.N.D. Institute	laurie.vismara@ucdmc.ucdavis.edu	143.126, 143.131, 157.004
Veatch, O. Vanderbilt University	olivia.j.veatch@vanderbilt.edu	127.095	Visser, E. M. Radboud University Nijmegen Medical Centre	E.visser@mps.umcn.nl	144.144
			Visser, K. Yulius	k.visser@yulius.nl	167.002

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Vitiello, B. National Institute of Mental Health	bv5r@nih.gov	167.005	Wallace, G. L. National Institute of Mental Health	gwallac1@gmail.com	115.058, 115.060, 130.141, 130.164, 144.159, 157.001, 160.030, 161.089
Vivanti, G. La Trobe University	G.Vivanti@latrobe.edu.au	151.001, 151.002, 168.006	Wallace, M. T. Vanderbilt University	mark.wallace@vanderbilt.edu	108.131, 126.046, 126.054, 168.002
Vives, L. University of Washington	lvives@u.washington.edu	155.008	Wallace, S. B. Autistica	simon.wallace@autistica.org.uk	116.097, 146.004
Voccola, D. Prometheus Research, LLC	david@prometheusresearch.com	128.120, 128.121, 128.122	Waller, A. University of Dundee	awaller@computing.dundee.ac.uk	128.105
Vogan, V. Hospital for Sick Children	vanessa.vogan@sickkids.ca	108.154	Wallinius, M. University of Lund	marta-wallinius@med.lu.se	121.007
Vogel-Farley, V. Children's Hospital Boston	Vanessa.Vogel@childrens.harvard.edu	136.013, 136.017	Walsh, P. King's College London	patricia.walsh@kcl.ac.uk	101.003
Volden, J. University of Alberta	Joanne.Volden@ualberta.ca	102.007, 110.001, 112.003, 121.008, 160.016, 164.146	Walters, C. Cardiff University	catherine_walters@hotmail.com	112.008
Volein, A. Birkbeck, University of London	a.volein@bbk.ac.uk	134.008	Walton-Bowen, K. L. Seaside Therapeutics	kwaltontbowen@seasidetx.com	102.001
Voltolina, L. Oregon Health & Science University	voltolin@ohsu.edu	142.103, 167.006	Waly, M. I. I. Sultan Qaboos University	mostafa@sqsu.edu.om	106.044, 116.098, 162.110
von Hehn, J. S. Ph.D Seaside Therapeutics	jvonhehn@seasidetherapeutics.com	102.001	Wan, C. Y. Beth Israel Deaconess Medical Center and Harvard Medical School	cwan@bidmc.harvard.edu	167.003
Voos, A. C. Yale University, University of California Santa Barbara	avery.voos@yale.edu	108.166, 129.129	Wan, M. W. University of Manchester	m.w.wan@manchester.ac.uk	134.007
Voran, A. Saarland University	Anette.Voran@uniklinikum-saarland.de	127.073	Wandaas, P. C. Vestre Viken Hospital Trust	wandaas@gmail.com	130.166
Vorstman, J. A. Brain Centre Rudolf Magnus	j.a.s.vorstman@umcutrecht.nl	127.065, 164.160	Wandell, B. A. Stanford University	wandell@stanford.edu	156.003
Vosoughi, S. Massachusetts Institute of Technology	soroush@mit.edu	128.110	Wang, A. T. Mount Sinai School of Medicine	ting.wang@mssm.edu	130.153, 167.004
Vourc'h, P. Centre Hospitalier Regional Universitaire, Inserm UMR930	vourch@med.univ-tours.fr	120.007	Wang, C. Nankai University	chongyingwang@nankai.edu.cn	144.164, 162.112, 164.174
Voyer, S. University of New Brunswick	svoyer@unb.ca	164.153	Wang, D. J. The Children's Hospital of Philadelphia	wangd@email.chop.edu	129.126
Vuust, P. Center of Functionally Integrative Neuroscience, Aarhus University, The Royal Academy of Music, Denmark	petervuust@gmail.com	108.150, 129.136	Wang, J. BGI-Shenzhen	wangjun30@gmail.com	155.006
W			Wang, L. University of South Australia	wanly049@mymail.unisa.edu.au	135.004
Waddell, C. Simon Fraser University	charlotte_waddell@sfu.ca	102.007, 110.001, 112.003, 121.008	Wang, P. Seaside Therapeutics	pwang@seasidetherapeutics.com	102.001
Wade, J. L. University of Virginia	jlh6xf@virginia.edu	116.081, 137.027, 161.072	Wang, S. Caltech	wangshuo45@gmail.com	137.023
Wadsworth, H. M. University of Alabama at Birmingham	hwadswor@uab.edu	108.165	Wang, Y. Beijing Normal University	33048593@qq.com	164.174
Wagemans, J. University of Leuven (KU Leuven)	Johan.Wagemans@psy.kuleuven.be	141.045, 141.070, 144.143	Wang, Z. Nankai University		144.164
Wagner, J. B. Boston Children's Hospital, Harvard Medical School	jennifer.wagner@childrens.harvard.edu	108.135, 163.143	Ward, R. A. Brock University	bward@brocku.ca	160.032
Wahed, A. Sr. Bryn Mawr College	annafi.wahed@gmail.com	163.130	Warnell, F. A. Institute of Neuroscience, Newcastle University	frances.warnell@newcastle.ac.uk	106.047, 107.115
Wainer, A. Michigan State University	wainera@msu.edu	117.129	Warner, G. Institute of Psychiatry	georgina.warner@kcl.ac.uk	142.090
Wakefield, J. UCL Institute of Child Health	justin.daniel.wakefield@gmail.com	107.095, 107.103	Warren, Z. Vanderbilt University	zachary.warren@vanderbilt.edu	107.083, 107.096, 111.004, 113.029, 128.099, 160.026
Wakeford, L. University of North Carolina at Chapel Hill	lwakefor@med.unc.edu	143.118	Warreyn, P. Ghent University	petra.warreyn@ugent.be	113.001, 146.002, 160.041
Walker, C. K. University of California	ckwalker@ucdavis.edu	106.040, 121.003	Wasisco, J. E. Marquette University	janel.wasisco@marquette.edu	122.006, 130.142
Walker, S. J. Wake Forest Institute for Regenerative Medicine	swalker@wfubmc.edu	142.096	Wass, S. University of Cambridge	sam.wass@bbk.ac.uk	163.133, 163.134
Wall, D. P. Harvard Medical School	dpwall@hms.harvard.edu	111.005, 127.090, 127.094	Wasserman, M. M. M. The Help Group-UCLA Autism Research Alliance, UCLA PEERS Clinic, Pepperdine University	melissa.wasserman@pepperdine.edu	141.080, 154.001
Wallace, E. Vanderbilt Kennedy Center	lisa.wallace@vanderbilt.edu	113.029	Watanabe, H. Showa University	ohishi@mti.biglobe.ne.jp	136.021
			Watanabe, K. Nagaoka National College of Technology	kazutada@nagaoka-ct.ac.jp	127.070
			Watson, L. R. University of North Carolina at Chapel Hill	lwatson@med.unc.edu	143.118

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Weber, J. M. M. Florida International University	jessweber7@gmail.com	164.172	Wier, K. G. University of Notre Dame, Logan Center	kristinw@logancenter.org	128.104, 162.121
Weber, N. Flinders University	nathan.weber@flinders.edu.au	141.082	Wiersma, J. R. Ghent University	Roeljan.Wiersma@UGent.be	125.038, 146.002
Weed, E. Aarhus University Hospital	weed.ethan@gmail.com	117.125	Wiersma, D. University Medical Center Groningen	durk.wiersma@umcg.nl	111.003
Wegiel, J. New York State Institute for Basic Research in Developmental Disabilities	Jarek.wegiel@opwdd.ny.gov	114.038, 114.039	Wiesendanger, S. University of Applied Sciences Western Switzerland	sandra.wiesendanger@fr.educanet2.ch	141.047
Wegiel, J. New York State Institute for Basic Research	jerzy.wegiel@opwdd.ny.gov	114.034, 114.039	Wiggins, L. D. D. Centers for Disease Control and Prevention	lwiggins@cdc.gov	104.008, 106.053
Wei, R. The University of Hong Kong	weiran@hkusua.hku.hk	133.006	Wigham, S. Newcastle University	sarah.wigham@newcastle.ac.uk	117.147, 143.129, 164.157, 166.005
Weikop, P. Laboratory of Neuropsychiatry, Psychiatric Centre Copenhagen	pia.weikop@gmail.com	105.005	Wijnroks, L. Utrecht University	A.Wijnroks@uu.nl	126.053
Weinger, P. M. Yeshiva University	paige.weinger@gmail.com	107.076, 123.013	Wilker, C. Goethe University	christian.wilker@kgu.de	124.020
Weisner, T. S. UCLA	tweisner@ucla.edu	113.005, 113.016, 165.003	Willfors, C. Department of Women's and Children's Health, Astrid Lindgren Children's Hospital, Q2:07, Center of Neurodevelopmental Disorders (KIND), Karolinska Institutet	charlotte.willfors@ki.se	144.142
Weiss, J. A. York University	jonweiss@yorku.ca	117.160, 161.062, 162.107	Williams, B. L. L. UCLA	blw252@gmail.com	130.177
Weiss, L. A. University of California San Francisco	lauren.weiss@ucsf.edu	127.092, 159.008	Williams, D. M. Durham University	david.williams@durham.ac.uk	141.061, 141.065, 168.004
Weiss, P. L. University of Haifa	plweiss@gmail.com	128.098, 128.107	Williams, D. L. Duquesne University	williamsd2139@duq.edu	117.135, 129.132
Weiss, S. Hospital for Sick Children, University of Toronto	shelly.weiss@sickkids.ca	142.104, 142.109	Williams, E. L. L. University of Louisville	elwill08@louisville.edu	115.071
Weisskopf, M. G. Harvard School of Public Health	mweissko@hsph.harvard.edu	106.065, 119.001, 166.008	Williams, J. Ministry of Education (Ontario, Canada)	julie.williams@ontario.ca	132.005
Weitlauf, A. S. S. Vanderbilt University	amy.s.weitlauf@vanderbilt.edu	107.083, 107.096, 160.026	Williams, K. University of Melbourne and Royal Children's Hospital	katrina.williams@rch.org.au	166.001
Wenderoth, N. ETH Zurich	nicole.wenderoth@hest.ethz.ch	115.057	Williams, S. C. King's College London, Institute of Psychiatry	steven.williams@kcl.ac.uk	108.175
Weng, S. J. Institute of Mental Health, Duke-NUS Graduate Medical School	shih.jen.weng@gmail.com	161.073	Williams, S. M. Dartmouth College	Scott.Williams@Dartmouth.edu	127.078
Wentz, E. Gillberg Neuropsychiatry Centre, University of Gothenburg	elisabet.wentz@gnc.gu.se	161.098, 164.176	Wills, M. Children's National Medical Center	meagancwills@gmail.com	130.141, 130.164, 144.159, 157.001
Werner, M. A. Ivymount School	madler@ivymount.org	130.141, 130.164, 157.001	Willsey, A. J. J. Yale University School of Medicine	jeremy.willsey@yale.edu	127.077, 150.001, 150.003, 150.004
Westphal, A. Yale Child Study Center	Alexander.westphal@yale.edu	108.166	Wilmot, B. Oregon Health & Science University	wilmotb@ohsu.edu	106.035
Wetherby, A. M. M. Florida State University Autism Institute	amy.wetherby@med.fsu.edu	107.097, 157.005	Wilson, C. E. King's College, London	ellie.wilson@kcl.ac.uk	107.109, 126.041
Wexler, D. M. Weill Cornell Medical College	dwex06@aim.com	107.075	Wilson, D. Queen's University	daryl.wilson@queensu.ca	144.177, 164.169
Whitaker, T. M. The University of Tennessee Health Science Center	twhitak1@uthsc.edu	117.170	Wilson, H. R. Center for Vision Research, York University	hrwilson@yorku.ca	126.055
White, K. McGill University	keeley.white@mail.mcgill.ca	116.086, 116.090	Wilson, J. M. University of Massachusetts Boston	joshua.wilson@umb.edu	113.031
White, L. Cardiff University	whitelj2@cardiff.ac.uk	116.106	Wilson, L. B. University of Colorado Denver, Anschutz Medical Campus	lisa.wilson@ucdenver.edu	108.132, 122.002
White, S. J. University College London	s.white@ucl.ac.uk	141.073, 144.170, 161.051, 164.157	Wilson, S. University of Melbourne	sarahw@unimelb.edu.au	160.027
Whitehead, P. University of Miami	pwhitehead@med.miami.edu	127.078	Wilson-Loupée, S. The Chicago School of Professional Psychology	slw2963@ego.thechicagoschool.edu	143.115
Wicker, B. Institut de Neurosciences de la Timone	bruno.wicker@gmail.com	108.126, 108.147, 108.152	Wilting, R. GGZ Eindhoven Center Elderly Care Autism	RMHJ.Wilting@ggze.nl	164.156
Widjaja, F. University of California, San Francisco	felicia.widjaja@ucsf.edu	162.103, 162.108, 167.007	Wimporly, D. Bangor University and Betsi Cadwaladr University Health Board	Dawn.Wimporly@wales.nhs.uk	116.095
Wiemann, S. Deutsches Krebsforschungszentrum (DKFZ)	s.wiemann@dkfz.de	120.002			

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Winder, B. M. Bryn Mawr College, The Children's Hospital of Philadelphia	bwinder@brynmawr.edu	134.006, 163.130	Yamada, T. Showa University	yanmar_com@yahoo.co.jp	136.021
Windham, G. C. California Dept of Public Health	Gayle.Windham@cdph.ca.gov	104.003, 106.060, 159.008	Yamamoto, J. Keio University	yamamotoj@flet.keio.ac.jp	130.156
Windsor, T. Flinders University of South Australia	tim.windsor@flinders.edu.au	117.163	Yang, D. Yale University	yung-jui.yang@yale.edu	115.063
Wing, L. National Autistic Society	lgwing@aol.com	107.080, 107.107	Yao, G. University of Missouri Columbia	yaog@missouri.edu	117.110, 142.089
Wingate, M. University of Alabama, Birmingham	MWingate@ms.soph.uab.edu	106.053	Yarrow, K. City University London	kielan.yarrow.1@city.ac.uk	126.059
Winn, B. Cardiff University	winnb@cardiff.ac.uk	116.106	Yasamy, M. T. World Health Organization	yasamym@who.int	130.168
Winter, J. University of Washington	jmwinter@u.washington.edu	143.126, 143.131, 157.004	Yaspan, B. Vanderbilt University	brian.yaspan@vanderbilt.edu	127.095
Wisniewski, T. New York State Institute for Basic Research in Developmental Disabilities	thomas.wisniewski@med.nyu.edu	114.038, 114.039	Yatawara, C. Brain and Mind Research Institute	c.yatawara@sydney.edu.au	164.178
Witmans, M. University of Alberta and Stollery Children's Hospital	Manisha.Witmans@albertahealthservices.ca	142.109	Yau, S. Macquarie Centre for Cognitive Science	shu.yau@mq.edu.au	108.143
Wodka, E. L. Ph.D. Kennedy Krieger Institute	wodka@kennedykrieger.org	123.010	Yau, V. Kaiser Permanente	vincent.m.yau@kp.org	104.003
Wohlschlegel, J. A. The University of California, Los Angeles	jwohl@mednet.ucla.edu	120.006	Yeargin-Allsopp, M. CDC	mxy1@cdc.gov	106.053
Wolf, J. Yale Child Study Center	julie.wolf@yale.edu	121.005, 167.001	Yerys, B. E. Children's Hospital of Philadelphia	yerysb@email.chop.edu	144.159, 161.089
Wolf, M. Oregon Health & Science University	wolfma@ohsu.edu	142.103	Yi, L. Sun Yat-sen University	yili5@mail.sysu.edu.cn	144.173
Wong, C. University of North Carolina at Chapel Hill	connie.wong@unc.edu	113.018	Yilmaz, S. NE University, Meram Faculty of Medicine	drsavash@gmail.com	142.091
Wood, C. Azusa Pacific University	cwood10@apu.edu	105.024	Yoo, H. J. Seoul National University Bundang Hospital, Seoul National University College of Medicine	hjyoo@snu.ac.kr	130.143, 140.039
Wood, J. J. University of California Los Angeles	jwood@gseis.ucla.edu	110.005, 161.066	Yoon, J. H. UC Davis, Psychiatry, Imaging Research Center	jhyoon@ucdavis.edu	108.171
Woodhouse, E. L. King's College London	Emma.Woodhouse@kcl.ac.uk	107.087, 144.145	Yoshida, C. Kaiser Permanente	cathleen.k.yoshida@kp.org	104.003
Woods, J. J. Florida State University Autism Institute	jwoods@fsu.edu	107.097, 157.005	Yoshikawa, T. Aichi Prefectural Colony Central Hospital	toru-y@med.nagoya-u.ac.jp	107.107
Worcester, E. C. C. University of California, San Diego	eworcest@ucsd.edu	124.022	You, R. S. S. Université Paris Diderot	youlpp@yahoo.fr	126.042
Worsham, W. Brigham Young University	whitney.worsham@byu.net	141.075	You, X. Georgetown University	xy34@georgetown.edu	114.040
Wouters, J. KU Leuven	jan.wouters@med.kuleuven.be	126.049	Young, G. S. UC Davis M.I.N.D. Institute	gregorys.young@ucdmc.ucdavis.edu	151.003, 156.003
Woynaroski, T. Vanderbilt University	tiffany.g.woynaroski@vanderbilt.edu	108.131, 126.046, 126.054, 168.002	Young, L. J. Emory University	lyoung@emory.edu	140.040
Wozniak, D. F. Washington University	wozniakd@psychiatry.wustl.edu	105.009	Young, R. L. Flinders University of South Australia	Robyn.Young@flinders.edu.au	107.088, 107.108, 107.113, 117.163, 130.140, 141.058, 141.082, 158.002
Wu, X. UC Davis	maywu@ucdavis.edu	106.039	Yu, Y. Nankai University,	1223870705@qq.com	162.112
Wynne, R. A. Arkansas Children's Hospital	WynneRebeccaA@uams.edu	120.003, 142.098	Yuan, H. Washington University	uanhan@go.wustl.edu	127.076
Wynshaw-Boris, A. Institute for Human Genetics, UCSF	WynshawBorisT@peds.ucsf.edu	105.019	Yuk, F. J. Mount Sinai School of Medicine	Frank.yuk@mssm.edu	133.002
X			Yussuf, A. McGill University	afiqah.yusuf@mail.mcgill.ca	127.068
Xenitidis, K. Maudsley Hospital	kiriakos.xenitidis@slam.nhs.uk	132.003	Yusuf, A. A. McGill University	afiqahaffandi@gmail.com	113.020, 116.093
Xu, X. Washington University	xiaoxu@ese.wustl.edu	127.062	Z		
Y			Zachor, D. A. Tel Aviv University/ Assaf Harofeh Medical Center	dzachor@smile.net.il	103.002, 106.062
Yager, J. Simon Fraser University	yager.jodi@gmail.com	117.133	Zahorodny, W. W. New Jersey Medical School	zahorodn@umdnj.edu	160.021
			Zaidman-Zait, A. University of British Columbia	anat.zaidman@ubc.ca	121.008
			Zamzow, R. M. University of Missouri-Columbia	rmzz85@mail.missouri.edu	105.017, 115.065, 115.067

ABSTRACT AUTHOR INDEX

Author Name	Email Address	Abstract	Author Name	Email Address	Abstract
Zand, D. Saint Louis University	dzand@slu.edu	162.115	Zink, I. University of Leuven (KU Leuven), University Hospitals Leuven (UZ Leuven)	inge.zink@med.kuleuven.be	139.035
Zander, E. Karolinska Institutet, Child and Adolescent Psychiatry, Stockholm County Council	eric.zander@sl.se	107.104	Zinkstok, J. Bethlem Royal Hospital	janneke.zinkstok@slam.nhs.uk	132.003
Zandi, T. Kennedy Krieger Institute	zandi@kennedykrieger.org	167.007	Zipursky, L. HHMI/UCLA	lzipursky@mednet.ucla.edu	105.029
Zanobini, M. University of Genoa	Mirella.Zanobini@unige.it	144.163	Zisook, M. Northeastern University	mzisook@neu.edu	128.111
Zarevics, P. Seaside Therapeutics	pzarevics@seasidetx.com	102.001	Zona, J. Barber National Institute	jzona@barberinstitute.org	128.104
Zargar, Z. University of Washington	shirin_zargar@yahoo.com	143.131	Zuckerman, K. E. Oregon Health & Science University	zuckerma@ohsu.edu	113.019, 132.006, 142.103
Zarnow, D. M. Children's Hospital of Philadelphia, University of Pennsylvania	zarnow@email.chop.edu	129.131	Zupancic, M. University Paediatric Hospital	mirjana.zupancic@kolj.si	106.051
Zavattari, P. University of Cagliari	pzavattari@unica.it	140.037	Zwaigenbaum, L. University of Alberta	lonnie.zwaigenbaum@albertahealthservices.ca	102.007, 107.102, 110.001, 111.008, 112.003, 113.020, 115.070, 115.072, 115.075, 116.082, 116.088, 116.108, 117.132, 121.008, 127.088, 129.133, 129.135, 132.008, 134.006, 163.128
Zebib, R. Université François Rabelais	rashazebib@gmail.com	117.153			
Zeffiro, T. A. Neural Systems Group, Massachusetts General Hospital	zeffiro@nmr.mgh.harvard.edu	108.137, 129.124			
Zelli, J. Children's Hospital of Philadelphia	zellij@email.chop.edu	116.078			
Zemon, V. Yeshiva University	vepman@aol.com	123.013			
Zerbo, O. Kaiser Permanente Division of Research	ousseny.x.zerbo@kp.org	106.054			
Zermeño Perez, A. University of Salamanca		104.007			
Zhang, J. University of Denver	jun.zhang@du.edu	130.161			
Zhang, X. The University of Hong Kong	xiaofan.zhang@hku.hk	133.006			
Zhang, X. Tianjin Medical University	zhangxin@tjmu.edu.cn	106.030			
Zhang, X. Z. Peking University First Hospital	zhangzhixiangpuft@gmail.com	102.008			
Zhang, Y. Centers for Disease Control and Prevention	coi8@cdc.gov	104.002			
Zhang, Y. Washington University School of Medicine	zhangy@psychiatry.wustl.edu	162.119			
Zhao, Y. Yan Shan University	ysuzyt@qq.com	164.174			
Zheng, H. BGI-Shenzhen	hanc.zheng@gmail.com	155.006			
Zheng, H. Nankai University		144.164			
Zheng, Z. Vanderbilt University	zhi.zheng@vanderbilt.edu	128.099			
Zhou, X. Nankai University		162.112			
Zhou, X. Robert Wood Johnson Medical School	xfengzhou@yahoo.com	105.013			
Zhu, Y. Yale University School of Medicine	ying.zhu@yale.edu	150.004			
Zielinski, B. A. University of Utah	brandon.zielinski@utah.edu	115.046, 115.056, 115.073			
Zierhut, C. D. UC Davis M.I.N.D. Institute	cynthia.zierhut@ucdmc.ucdavis.edu	151.001, 151.002			
Zilbovicius, M. INSERM Unity 1000, Necker Hospital	mozilbo@gmail.com	108.139			
Zimmerman, A. W. Lurie Center/MGH	azimmerman@partners.org	160.031			

IMFAR Annual Meeting – International Meeting for Autism Research

The year 2013 marks the 12th International Meeting for Autism Research (IMFAR). The IMFAR Annual Meeting was convened for the first time in November 2001, to provide ASD researchers from around the world with a focused opportunity to share the rapidly moving scientific investigation of ASD.

Until that meeting, ASD researchers competed with many other groups for the opportunity to share their work at large scientific meetings that covered a wide range of topics. While other meetings provided some opportunity to share high quality ASD research, none of them focused specifically on ASD. Funding for ASD research has increased steadily, highlighted by the emergence of private foundations, such as Autism Speaks and several NIH initiatives: The Autism Centers for Excellence (ACE), which replaces earlier NIH programs – The Collaborative Programs of Excellence in Autism (CPEA) and the Studies to Advance Autism Research and Treatment (STAART) network program. Stimulating more scientific progress in understanding ASD requires dedicated yearly venue for ASD researchers to share their findings and their resources.

Scientific progress in ASD also requires the continuous development of new scientists, from many disciplines. Scientific progress in ASD is dependent upon increasing the number and expertise of scientists working in this ASD from the wide array of the biological and behavioral sciences. Given the complex biological and behavioral nature of ASD, interdisciplinary training and ongoing mentoring of new scientists and promising graduate students is necessary to recruit talented young people in ASD research. We want to provide them with the motivation and mentoring needed to focus a career on ASD and related developmental disorders. Having an annual interdisciplinary meeting focused on scientific progress in understanding and treating ASD provides an unparalleled opportunity for recognizing, supporting, and motivating talented graduate students and postdoctoral fellows into a career in ASD research.

Objectives of the Meeting

1. The International Meeting for Autism Research (IMFAR) is an annual scientific meeting, convened each spring, to exchange and disseminate new scientific progress among ASD scientists and their trainees from around the world. The first and primary aim of the meeting is to promote exchange and dissemination of the latest scientific findings and to stimulate research progress in understanding the nature, causes, and treatments for ASD.
2. Research on ASD involves sophisticated behavioral and biological approaches. ASD affects people's functioning in virtually every domain, requiring interdisciplinary research collaboration to gain comprehensive knowledge of the disorder. A second aim of the meeting is to foster dialogue among ASD scientists across disciplines and across methods.
3. The third aim is to promote the training and development of new ASD scientists by supporting the inclusion of postdoctoral and predoctoral trainees as well as junior faculty who are already working in ASD research. The opportunity for trainees and junior faculty to interact with established ASD scientists will foster the creativity and productivity of those at all levels.
4. The fourth aim is to foster diversity among ASD scientists by encouraging attendance and supporting access to the meeting for scientists and trainees from members of traditionally underrepresented groups, including those from ethnic minority groups, and those with disabilities.

Abstracts

Abstracts from the 2013 Annual Meeting are available on the INSAR website. An archive of past meeting abstracts is also available online.

Insurance, Liabilities

INSAR cannot be held responsible for any personal injury, loss, damage, accident to private property or additional expenses incurred as a result of delays or changes in air, rail, sea, road, or other services, strikes, sickness, weather, acts of terrorism and any other cause. All participants are encouraged to make their own arrangements for health and travel insurance.

Exhibits

The Exhibit Hall is an integral part of the learning experience. Attendees will have an ideal opportunity to learn about the latest in pharmaceuticals, publications, scientific equipment, and technology relevant to the fields of epilepsy and neurophysiology. Please check the IMSAR website for an updated listing of exhibiting companies and organizations. To ensure safety and security, no children, strollers, carriages, wheeled luggage or wheeled briefcases will be allowed in the Exhibit Hall during exhibit hours.

Thursday, May 2	9:00 – 17:00
Friday, May 3	9:00 – 17:00
Saturday, May 4.....	9:00 – 14:00

Wireless Internet

Wireless internet is available for all meeting rooms from Thursday, May 2 – Saturday, May 4. Please follow instructions below to access. Tip: If your browser's home page is set to your company's intranet site (i.e., <http://intranet.mycompany.com>), click the "Stop" button and go to a normal website such as www.Kursaal.com.es to be signed on. You will be able to access your intranet site once you have successfully connected.

- Connect to the SSID : Kursaal
- Start your internet browser before using any other internet applications such as email, chat, or VPN software. You will be automatically redirected to the Kursaal Congress Centre portal site.
- Click the "Connect Now" link to go to the sign on page and enter the following username and password information:
- Username: IMFAR
- Password: 2013

Mobile Device Charging Area

Located outside of the Banquet Hall on Level -1 is a Mobile Device Charging Area where you may plug in your laptop, cell phone or other mobile device. Please do not leave your mobile devices unattended as IMFAR is not responsible for any lost items!

Language

The official language of the Annual Meeting is English. Sessions presented in the Auditorium will be translated into Basque, French and Spanish. Translation service will not be available for sessions in any other meeting rooms.

Photography and Recording of Programs

INSAR strictly prohibits all photography (flash, digital, or otherwise), audio and / or videotaping during the Annual Meeting. Equipment will be confiscated. Photographs taken during this meeting by INSAR may be used in any of the Society's communications and materials in the furtherance of the organization's goals and purposes.

Press Room

The Press Room is located on the first floor of the Kursaal Congress Centre in Room 10A. Press Room hours are:

Thursday, May 2	9:00 – 17:00
Friday, May 3	9:00 – 17:00
Saturday, May 4.....	9:00 – 12:00

Program Changes

INSAR cannot assume liability for any changes in the program due to external or unforeseen circumstances.

Meeting Location

Kursaal Congress Centre
Zurriola Avenue, 1
Donostia / San Sebastián, Spain 20002

Business Center

There is not a Business Center within the Kursaal Congress Centre. The closest Business Center is located across the river from Kursaal Congress Centre and is called DELTA. The address is Reina Regente, 6, phone number 943 42 43 88, email: asundelta@yahoo.es

No Smoking Policy

For the comfort and health of all attendees, smoking is not permitted at any IMFAR functions. This includes educational sessions, meetings and all food functions. The Kursaal Centre is a 100% smoke-free facility.

Information for International Travelers

Consulates and Embassies: International embassies from other countries to Spain are located in either Madrid or Barcelona. There are a few international embassy branch offices for some of the European countries, called consulates, located in Donostia /San Sebastian,. The United State Embassy is located in Madrid and can be reached by calling 34 91 587-2200. To find out information about the location of your embassy go to <http://www.embassyfinder.com/>

Gratuities

Gratuities are considered polite and proper etiquette in Spain and are not automatically added to a bill. Leaving small change behind to round up to the nearest Euro is the most common form of tipping. Maybe an extra Euro or 2 if the service was very good.

In the more upscale restaurant tipping is expected and 10% is a good amount.

Outside the restaurant and bars, some service providers, such as taxicab drivers and hotel personnel may expect tipping.

Registration and Security

IMFAR is committed to providing a secure meeting environment. A formal security plan is in place with the Security Department at the Kursaal Congress Centre. All meeting attendees will be required to produce government-issued photo identification prior to receiving their badge and registration materials. Appropriate badges must be worn at all times while in attendance at the meeting and are required for admittance to all meeting activities. Special security procedures are also in place for exhibition materials and all deliveries to the IMFAR meeting.

Safety and Security Information

The Kursaal Congress Centre security team will be on site during the entire IMFAR Congress. In case of an emergency please contact any of the hostesses that are position throughout the Congress Centre. They are in radio contact with security personnel and EMT's.

Trained Medical Personnel will also be on site throughout the entire Congress to handle any medical emergency that arise.

Appropriate badges will be required to enter all educational sessions, Poster Sessions, the Exhibit Hall and meetings. Due to safety and fire regulations, doors will be closed to all session rooms that fill to capacity. Throughout the meeting, you will notice a presence of security staff to monitor the safety of all participants. Do not leave unattended packages (i.e., briefcases, laptops, purses, etc.) in any area of the Congress Centre. Please report any suspicious activity to security staff or to the IMFAR registration desk staff.

General Safety Tips

- Remove your badge once you leave the meeting facilities
- Carry important telephone numbers with you
- Do not display or carry large amounts of cash
- Walk in groups, especially at night
- Lock your hotel room door
- Always verify hotel room repair or service calls
- Do not disclose your room number to anyone
- Never give your personal information over the phone; instead, go to the front desk if the hotel calls with questions

Contact Information

International Society for Autism Research (INSAR)
342 North Main Street
West Hartford, CT 06117-2507

Phone: 860.586.7575
Email: INSAR@autism-insar.org
Website: www.autism-insar.org

Membership

Join
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INSAR membership is open to individuals engaged in academic or research activities (full members), graduate students and postdoctoral researchers (student members) and others (affiliate members) vested in the study of autism spectrum disorders (ASDs).

Currently, the membership benefits entail the following:

- Free abstract submission to annual IMFAR meeting
- Reduced registration fee for annual IMFAR meeting
- Eligibility to submit Educational Symposia proposals for IMFAR
- Free audio and / or video files of IMFAR presentations (Keynotes, IES, etc)
- Online subscription to *Autism Research* journal
- Ability to vote and run for elected office in INSAR
- Submit job postings for the INSAR website (postings can be viewed by all visitors)
- Online membership directory

In order to qualify for membership, fees must be paid annually and an initial application must be submitted to the INSAR Membership Committee.

Visit the INSAR website at www.autism-insar.org today to complete a membership application.

EXHIBITORS

Autism Europe

Aurélie Baranger
Director
Rue Montoyer, 39 – bte 11
1000 Bruxelles
Phone: +32 2 675 75 05
Email: Aurelie.Baranger@autismeurope.org
www.autismeurope.org

Autism-Europe is an international association whose main objective is to advance the rights of people with autism and their families and to help them improve their quality of life. Autism-Europe plays a key role in raising public awareness and in promoting evidence-based practices in the field of autism across Europe.



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London
WC1X 8HB
United Kingdom
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Autism Science Foundation

Donielle Johnson
Program Manager
419 Lafayette Street
New York, NY 10003
Phone: (212) 391-3913
Email: contactus@autismsciencefoundation.org
www.autismsciencefoundation.org

The Autism Science Foundation supports autism research by providing funding to scientists conducting cutting-edge autism research. ASF also shares information about autism with the general public and serves to increase awareness of autism and the needs of individuals and families affected by autism. ASF is a non-profit 501(c)(3) public charity.



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Dana Marnane
Vice President, Communications & Awareness
1 East 33rd Street, 4th Floor
New York, NY 10016
Phone: (212) 252-8650
Email: dmarnane@autismspeaks.org
www.autismspeaks.org

Autism Speaks is the world's leading autism science and advocacy organization. It is dedicated to funding research into the causes, prevention, treatments and a cure for autism; increasing awareness of autism spectrum disorders; and advocating for the needs of individuals with autism and their families.



Mangold International GmbH

Graf-von-Deym-Str. 5
94424 Arnstorf / Germany
Phone: +49 (0)8723 978 330
Email: sales@mangold-international.com
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BioHug Technologies

Andrew Schiffmiller, CEO
P.O. Box 25321
Haifa 31250, Israel
Phone: 972-54-628-1827
Email: andrews@biohug.com
www.biohug.com

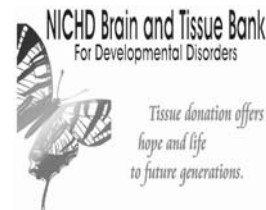
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Dr. Ron Zielke
655 W Baltimore St 13-013 BRB
Baltimore, MD 21201
Phone: (410) 706-6911
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www.Btbank.org

The NICHD Brain and Tissue Bank for Developmental Disorders was established in 1991 to serve as a tissue resource center with the goals of collecting, storing and distributing human tissue for medical research. The Bank works with individuals, support groups and researchers to offer hope and life to future generations.



EXHIBITORS

Noldus Information Technology bv

P. O. Box 268, 6700 AG
Wageningen, The Netherlands
Phone: +31 317 473300
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New York, New York 10010
Phone: (646) 654-0066
Email: communications@simonsfoundation.org
www.sfari.org



The Simons Foundation Autism Research Initiative (SFARI) seeks to improve the diagnosis and treatment of autism spectrum disorders by funding, catalyzing and driving innovative research of the highest quality and relevance. SFARI currently funds over 165 investigators in the United States and abroad and makes \$60M per year in grants for autism research. SFARI also aims to facilitate the field as a whole by developing resources for scientists.

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Inside Sales
Warthestr. 21
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Phone: +49 (0)3328 3955-10
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www.smivision.com



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Research Autism

Bernard Fleming
Information Manager
Adam House, 1 Fitzroy Square
London, UK W1T 5HE
Phone: (44) 20 3490 3091
Email: info@researchautism.net
www.researchautism.net



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Bognor Regis
West Sussex
PO22 9SA, UK
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Kevin Gamber
3050 Spruce Street
St. Louis, MO 63103
Email: kevin.gamber@sial.com
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Department of Psychiatry
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Center for Autism Research and Treatment
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International Society
for Autism Research

The International Society for Autism Research (INSAR) is a scientific and professional organization devoted to advancing knowledge about autism spectral disorders (ASDs), including autism, Asperger Syndrome and Pervasive Developmental Disorders Not Otherwise Specified (PDD NOS).

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SAVE THE DATE!

2014 IMFAR Annual Meeting

*May 15-17, 2014
Marriott Marquis
Atlanta, Georgia USA*

Abstract submission for the 2014 meeting is scheduled to open in September 2013
Watch our website for details

www.autism-insar.org

IMFAR is the annual meeting of the
International Society for Autism Research